

**NEW GOLD RAINY RIVER MINE
APPENDIX O
SURFACE WATER REPORT**



2022 Annual Surface Water Report

Per Environmental Compliance Approval
#2290-CAVKGN Condition 12(9), and
Previous ECAs #3855-C4E3FF Condition 12(9),
#7004-BC7KQ5 Condition 12(9) &
#5178-9TUDP9 Conditions 8(6) and 11(5)b

March 2023

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1. Introduction

New Gold Inc. (New Gold) operates the Rainy River Mine located within Chapple Township, approximately 65 kilometers northwest of Fort Frances in northwestern Ontario. In October 2017, the Rainy River Project transitioned from its construction phase to an operational phase known as Rainy River Mine (RRM). To date, RRM is an operational open pit and underground mine producing approximately 250,000 ounces of gold/silver annually.

This report has been prepared to satisfy Condition 12(9) of amended Environmental Compliance Approval (ECA) #2290-CAVKGN issued on April 14, 2022, by the Ministry of Environment, Conservation and Parks (MECP) replacing ECA #3855-C4E3FF issued on June 28, 2021, ECA #7004-BC7KQ5, ECA #5781-9VJQ2J and ECA #5178-9TUPD9 issued on February 11, 2020, May 8, 2015, and September 1, 2015, respectively. Condition 12(9) of the amended ECA requires the submission of an annual Surface Water Monitoring report, certified by the Mine Manager, or designate, by March 31 of each year. For ease of reporting, the sections of the report will be laid out in the order that the required information is listed in Condition 12(9) of the ECA:

- (a) a map of the entire site illustrating significant features (e.g., lakes, streams, ponds, seeps, ditches, waste rock piles, collection, and treatment facilities, etc.), surface water sampling locations, and hydrometric stations. Specific UTM coordinates must also be provided for surface water sampling locations and hydrometric stations,*
- (b) a summary and interpretation of all surface water monitoring data (e.g. Tables in usable format such as Microsoft Excel and shall contain current and historical data; graphs to visualize spatial and temporal trends; indicators within tables/graphs to denote when measured values exceeded applicable provincial/federal objectives/guidelines and triggers; a summary of non-compliance incidences over the reporting period, for example effluent limits or dilution ratios were exceeded, and if receiver water quality was influenced/impacted; etc.),*
- (c) other relevant information (e.g. Field sampling protocol and QA/QC measures),*
- (d) a summary of any potential effects that would necessitate investigation and abatement actions,*
- (e) any other information the District Manager may require from time to time.*

All data presented in this report will also be provided in spreadsheet format. A site plan with surface water sampling locations is provided as Figure 1. Appendix A includes a Certification by Owner (or representative) statement.

2. Surface Water Monitoring Program Overview

The New Gold RRM Surface Water Monitoring Program commenced in 2015 and includes 16 surface water monitoring locations with monthly sampling frequency per Tables 9 and 10 of the ECA, located both upstream and downstream of the mine, to assist with assessment of aquatic effects associated with the operation of RRM. The program has been aligned with the Effluent and Water Quality Monitoring sampling required by Schedule 5 of the *Metal and Diamond Mining Effluent Regulation* (MDMER). As such, at times during active discharge additional samples may be collected at selected surface water monitoring locations to ensure compliance with the MDMER. The program data also

supports the reporting requirements of Condition 12(6) of the ECA for Environmental Effects Monitoring Reports for Effluent Discharges every 3 years and the Environmental Effects Monitoring (EEM) Biological Monitoring studies required by Schedule 5 of the MDMER.

Quality assurance and quality control measures undertaken for the RRM Surface Water Monitoring Program include the collection of one field duplicate and preparation of one field blank each month. One travel blank is shipped with the samples to the external laboratory each month. Field water quality meters used for field data collection for the Surface Water Monitoring Program are calibrated externally on an annual basis, and are calibration checked by RRM Environmental Technicians at minimum once monthly.

A site plan with surface water sampling and hydrometric monitoring locations is presented in Figure 1. On three occasions, a request has been made to move the location of a surface water sample location listed in Table 7 of the ECA due to lack of safe access, and approval was received from the MECP. Table 1 of receiver surface water sampling locations with UTM coordinates reflects these approvals.

For this report, the surface water monitoring sample locations are grouped by location upstream to downstream, where applicable: Pinewood River, area creeks and Rainy River. Pre-2015 baseline receiver water quality tables and graphs are not discussed in this report however are provided in Appendix B for reference.

2.1. Pinewood River

Pinewood River surface water sample location data is reported in the following order:

- SW20 – Pinewood River at Heatwole Rd
- SW10 – Pinewood River at former Highway 600
- SW21A – Pinewood River upstream of the confluence with Loslo Creek
- SW22A – Pinewood River downstream of the confluence with Loslo Creek
- SW03 – Pinewood River at realigned Highway 600
- SW23 – Pinewood River upstream of EDL1
- SW24 – Pinewood River downstream of EDL1
- SW15 – Pinewood River upstream of the confluence with the Rainy River

Samples were not collected at the following Pinewood River surface water locations in 2022 for the indicated reasons:

- SW20 – Unsafe conditions in December
- SW10 – Unsafe conditions in December
- SW03 – Unsafe conditions in December
- SW23 – Unsafe conditions in December
- SW24 – Unsafe conditions in December

2.2. Area Creeks

Area creek surface water sample location data is reported in the following order:

- SW28A – “Clark Creek” downstream of the Clark Creek/Teeple Diversion
- SW02 – West Creek upstream of the West Creek Diversion
- SW25 – West Creek Diversion (WCD) upstream of Sediment Pond 1 final discharge point
- SW26 – WCD at old Highway 600 crossing near end of the diversion
- SW27 – remnant Loslo Creek downstream of the WCD, and
- SW29 – Tait Creek upstream of the EDL1 pipeline crossing.

Samples were not collected at the following area creek surface water locations in 2022 for the indicated reasons:

- SW28A – unsafe conditions in January, February, March, and August
- SW25 – Unsafe conditions in October
- SW26 – Unsafe conditions in October
- SW27 – Unsafe ice conditions in February and March
- SW29 – Unsafe conditions throughout the year except for May

2.3. Rainy River

Rainy River surface water sample location data is reported in the following order:

- SW16 – Rainy River upstream (Emo) of the confluence with the Pinewood River
- SW17 – Rainy River downstream of the confluence with the Pinewood River

Samples were not collected at the following area creek surface water locations in 2022 for the indicated reasons:

- SW16 – Unsafe conditions in December

Where data is presented in tabular format, Rainy River data has been included with area creeks to reduce the total number of tables presented.

3. Surface Water Quality Data and Trends

Pursuant to Condition 12(9)(b) of the ECA, the historical and 2022 receiving surface water quality data is presented for key parameters with comparison to ECA Surface Water Trigger Values (ECA Table 11), the Ontario Provincial Water Quality Objectives (PWQO), and Canadian Environmental Quality Guidelines (CEQG) in both tables and graphs to visualize spatial and temporal trends. Overall, the data shows that water quality is good, and results are generally below the PWQO, CEQG and ECA trigger values. To date, parameter results have been generally below the standards for protection of aquatic life, with exception of aluminum and iron which commonly exceeded permitted limits.

3.1. Pinewood River

The 2022 annual average surface water quality data for the Pinewood River sample locations is in Table 2. For comparison purposes, Tables 3 through 8 present the annual average surface water quality data for the years 2016 through 2021 the data for 2015 has not been presented as an annual average as the surface water monitoring program began mid-year. These tables provide a high-level overview of the average Pinewood River water quality by year at each sample location, from upstream of site to downstream of the Pinewood confluence with the Rainy River. The annual average surface water quality exceeded both the PWQO limit for total aluminum and the PWQO/CEQG limit for total iron consistently at each surface water monitoring sample location for the Pinewood River.

Pursuant to Condition 10(6) of the ECA, Tables 9 and 10 present the 2022 monthly surface water quality data for comparison with the ECA Table 11 Surface Water Trigger Values at surface water monitoring sample locations SW22A and SW24. Tables 11 through 20 present the 2016 to 2021 monthly surface water data for comparison with the ECA Surface Water Trigger Values. As a part of the Monthly Sewage Works Performance report required under Condition 12(5), surface water quality results for key parameters, including ECA Surface Water Trigger Values, are reported in tabular format. These tables are available in Appendix C which contains copies of the 2022 Monthly Performance Reports and provided in spreadsheet format.

Field pH

Figure 2a presents the field pH levels at all Pinewood River surface water monitoring sample locations for mid-2015 through 2022. In general, the field pH values recorded for the Pinewood River fall within the PWQO lower and upper pH limits (6.5 and 8.5). Figure 2b presents the field pH levels for 2022, which were all within the PWQO upper and lower pH limits except for the January 11, 2022, field pH recorded at SW20 (5.96), SW22A (6.33), the April 5, 2022, field pH recorded at SW20 (6.21), the May 3, 2022 field pH recorded at SW10 (6.11) and the December 11, 2022 field pH recorded at SW22A (9.31) and SW21A (8.97). The field pH data collected at these locations did not pass RRM quality control as the laboratory reported pH was 7.29 and 7.36 for locations SW20 and SW22 in January 2022, 7.33 at SW20 in April 2022, 7.37 at SW10 in May 2022 and 7.31 and 7.37 for SW21 and SW22 respectively in December 2022.

Total Suspended Solids

Figure 3a presents the total suspended solids (TSS) results for all Pinewood River surface water sample locations for mid-2015 through 2022. In general, the TSS results are below 30 mg/L with some elevated results recorded during spring freshet and the summer low flow season. Figure 3b presents the TSS results for 2022, which were all consistently below 20 mg/L.

Total Arsenic

Figure 4a presents the total arsenic results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2022. In general, the total arsenic results are below the PWQO limit (0.005

mg/L) with elevated results recorded during the summer low flow season. Figure 4b presents the total arsenic results for 2022, which were all below the PWQO limit.

Total Copper

Figure 5a presents the total copper results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2022. In general, the total copper results are below the PWQO limit (0.005 mg/L) with elevated results recorded during the summer low flow season. Figure 5b presents the total copper results for 2022. All results were below the PWQO limit.

Total Lead

Figure 6a presents the total lead results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2022. In general, the total lead results are below the PWQO limit (0.001-0.005 mg/L, dependent on hardness) with elevated results recorded during both the summer and winter low flow seasons. Figure 6b presents the total lead results for 2022. Two elevated results above the lower end of the PWQO limit (0.001 mg/L, where hardness <30 mg/L CaCO₃) were recorded at SW03 and SW15 in July and December respectively however the hardness was above 140 mg/L CaCO₃.

Total Nickel

Figure 7a presents the total nickel results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2022. To date, all total nickel results are below the PWQO limit (0.025 mg/L). There are higher results recorded during the winter and summer low flow seasons. Figure 7b presents the total nickel results for 2022.

Total Phosphorus

Figure 8a presents the total phosphorus results for all Pinewood River surface water monitoring sample locations for 2017 to 2022. In general, the total phosphorus results are consistent through time (below 0.2 mg/L) with some peaks during wintertime. Figure 8b shows the total phosphorus results for 2022.

Total Zinc

Figure 9a presents the total zinc results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2022. In general, the total zinc results are below the PWQO limit (0.02 mg/L) with elevated results recorded during the winter and summer low flow seasons. Figure 9b presents the total zinc results for 2022. Just one result at SW10 was above the PWQO limit (0.02 mg/L) in March 2022.

Total Mercury

Figure 10a presents the total mercury results for all Pinewood River surface water monitoring sample locations for mid-2015 to 2022. To date, all total mercury results are below the PWQO limit (0.0002

mg/L) and are often below the method detection limit. Figure 10b presents the total mercury results for 2022. All total mercury results are below the PWQO limit (0.0002 mg/L).

Un-ionized Ammonia

Figure 11a presents the calculated unionized ammonia results for all Pinewood River surface water monitoring sample locations for late 2015 to 2022. To date, all calculated unionized ammonia results are below the PWQO limit (0.02 mg/L) but one result in September 2022 at SW20. Figure 11b presents the calculated unionized ammonia results for 2022.

Free Cyanide

Figure 12a presents the free cyanide results for all Pinewood River surface water monitoring sample locations for early 2018 to 2022. To date, all free cyanide results are below the PWQO limit (0.005 mg/L). Figure 12b presents the free cyanide results for 2022.

3.2. Area Creeks

The 2022 annual average surface water quality data for area creek, and Rainy River, sample locations is presented in Table 21. For comparison purposes, the annual average surface water quality data for the years 2016 through 2021 are presented in Tables 22 through 27, the data for 2015 has not been presented as an annual average as the surface water monitoring program began mid-year. These tables provide a high-level overview of the average area creek water quality by year at each sample location, from creeks and diversions upstream of site to downstream of site where a discharge pipeline passes under Tait Creek. The annual average surface water quality exceeded both the PWQO limit for total aluminum, and the PWQO/CEQG limit for total iron with one exception at SW02, at each surface water monitoring sample location for area creeks.

As a part of the Monthly Sewage Works Performance report required under Condition 12(5), surface water quality results for key parameters are reported in tabular format. These tables are included with report in Appendix C which contains copies of the 2022 Monthly Performance Reports and provided in spreadsheet format.

Field pH

Figure 13a presents the field pH levels at all area creek surface water monitoring sample locations for mid-2015 through 2022. In general, the field pH values recorded for area creeks fall within the PWQO lower and upper pH limits (6.5 and 8.5). Figure 13b presents the field pH levels for 2022, which were most within the PWQO upper and lower pH limits except for field pH recorded on January 11 at SW02 (6.12) and SW26 (5.80), March 8 (6.09) recorded at SW02, May 3 recorded at SW02(6.08) and SW28A (6.05), and December 11 at SW02 (8.69), SW27 (9.01), SW25 (9.21) and SW28A (9.73). These results did not pass RRM quality control as the laboratory reported pH values within the limit range.

Total Suspended Solids

Figure 14a presents the total suspended solids (TSS) results for all area creek surface water sample locations for mid-2015 through 2022. In general, the TSS results are below 30 mg/L with some elevated results recorded during spring freshet and the summer low flow season. Figure 14b presents the TSS results for 2022, which were all at or below 25 mg/L except for the March sample collected at SW25 (102 mg/L).

Total Arsenic

Figure 15a presents the total arsenic results for all area creek surface water monitoring sample locations for mid-2015 to 2022. In general, the total arsenic results are below the PWQO limit (0.005 mg/L) with elevated results recorded during the summer low flow season. Figure 15b presents the total arsenic results for 2022, which were all below the PWQO limit.

Total Copper

Figure 16a presents the total copper results for area creek surface water monitoring sample locations for mid-2015 to 2022. In general, the total copper results are below the PWQO limit (0.005 mg/L) with elevated results recorded during the summer low flow season. Figure 16b presents the total copper results for 2022. Elevated results above the PWQO total copper limit (0.005 mg/L) were recorded at SW25 (0.0086 mg/L), SW02 (0.0064 mg/L) and SW26 (0.0055 mg/L) on March 8.

Total Lead

Figure 17a presents the total lead results for all area creek surface water monitoring sample locations for mid-2015 to 2022. In general, the total lead results are below the PWQO limit (0.001-0.005 mg/L, dependent on hardness) with elevated results recorded during both the summer and winter low flow seasons. Figure 17b presents the total lead results for 2022. All 2022 results were below the PWQO lower limit (0.001 mg/L) except for a sample collected at SW25 on March 8 (0.0022 mg/L) however the hardness was above 30 mg/L CaCO₃.

Total Nickel

Figure 18a presents the total nickel results for all area creek surface water monitoring sample locations for mid-2015 to 2025. To date, all total nickel results are below the PWQO limit (0.025 mg/L). There are higher results recorded during the winter and summer low flow seasons. Figure 18b presents the total nickel results for 2022.

Total Phosphorus

Figure 19a presents the total phosphorus results for all area creek surface water monitoring sample locations for 2017 to 2022. In general, the total phosphorus results are below 0.1 mg/L with some elevated results recorded during the winter and summer low flow periods. Figure 19b presents the total

phosphorus results for 2022, with three elevated results that correspond with the winter low flow period.

Total Zinc

Figure 20a presents the total zinc results for all area creek surface water monitoring sample locations for mid-2015 to 2022. In general, the total zinc results are below the PWQO limit (0.02 mg/L) with elevated results recorded during the winter and summer low flow seasons. Figure 20b presents the total zinc results for 2022. Results above the PWQO limit were recorded in the West Creek Diversion at SW25 and SW26 and at West Creek upstream at SW02 during the winter low flow period in February through March.

Total Mercury

Figure 21a presents the total mercury results for all area creek surface water monitoring sample locations for mid-2015 to 2022. To date, all total mercury results are below the PWQO limit (0.0002 mg/L) and are often below the method detection limit. Figure 21b presents the total mercury results for 2022.

Unionized Ammonia

Figure 22a presents the calculated unionized ammonia results for all area creek surface water monitoring sample locations for late 2015 to 2022. To date, all calculated unionized ammonia results are below the PWQO limit (0.02 mg/L) except for two anomalous results, the first one (0.04 mg/L) recorded at SW29 in February 2018 and the other one recorded at SW28A (0.039 mg/L) in December 2022. Figure 22b presents the calculated unionized ammonia results for 2022.

Free Cyanide

Figure 23a presents the free cyanide results for all area creek surface water monitoring sample locations for early 2018 to 2022. To date, all free cyanide results are below the PWQO limit (0.005 mg/L). Figure 23b presents the free cyanide results for 2022.

3.3. Rainy River

The 2022 annual average surface water quality data for the Rainy River sample locations is presented in Table 21. For comparison purposes, the annual average surface water quality data for the years 2016 through 2021 are presented in Tables 22 through 27, the data for 2015 has not been presented as an annual average as the surface water monitoring program began mid-year. These tables provide a high-level overview of the average Rainy River water quality by year at the Rainy River upstream of RRM at Emo and downstream of the Pinewood confluence with the Rainy River. The annual average surface water quality exceeded both the PWQO limit for total aluminum, and the PWQO/CEQG limit for total iron at both Rainy River surface water monitoring sample locations.

As a part of the Monthly Sewage Works Performance report required under Condition 12(5), surface water quality results for key parameters, including ECA Surface Water Trigger Value parameters are reported in tabular format. These tables are included with report in Appendix C which contains copies of the 2022 Monthly Performance Reports and provided in spreadsheet format.

Field pH

Figure 24a presents the field pH levels at the two Rainy River surface water monitoring sample locations for mid-2015 through 2022. In general, the field pH values recorded for the two locations fall within the PWQO lower and upper pH limits (6.5 and 8.5). Figure 24b presents the field pH levels for 2022 which most of them were within the PWQO upper and lower pH limits except for the ones recorded at both locations on February, August, and October, and one at SW16 in September. Any of these field readings pass the RRM quality control as the laboratory reported pH values within the limit range, see Figure 24b.

Total Suspended Solids

Figure 25a presents the total suspended solids (TSS) results for the two Rainy River water sample locations for mid-2015 through 2022. In general, the TSS results are below 30 mg/L with some elevated results recorded during spring freshet. Figure 25b presents the TSS results for 2022, which were all at or below 20 mg/L.

Total Arsenic

Figure 26a presents the total arsenic results for the two Rainy River water monitoring sample locations for mid-2015 to 2022. In general, the total arsenic results are below the PWQO limit (0.005 mg/L) with some anomalous results reported. Figure 26b presents the total arsenic results for 2022, which were all below the PWQO limit.

Total Copper

Figure 27a presents the total copper results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2022. In general, the total copper results are below the PWQO limit (0.005 mg/L) with elevated results recorded during the winter low flow season. Figure 27b presents the total copper results for 2022, all results were below the PWQO limit.

Total Lead

Figure 28a presents the total lead results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2022. In general, the total lead results are below the PWQO limit (0.001-0.005 mg/L, dependent on hardness) with elevated results recorded during the winter low flow season. Figure 28b presents the total lead results for 2022, all results were below the PWQO limit.

Total Nickel

Figure 29a presents the total nickel results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2022. To date, all total nickel results are below the PWQO limit (0.025 mg/L). Figure 29b presents the total nickel results for 2022.

Total Phosphorus

Figure 30a presents the total phosphorus results for the two Rainy River surface water monitoring sample locations for 2017 to 2022. In general, the total phosphorus results are below 0.1 mg/L. Figure 30b presents the total phosphorus results for 2022, which were all below 0.15 mg/L.

Total Zinc

Figure 31a presents the total zinc results for the two Rainy River monitoring sample locations for mid-2015 to 2022. In general, the total zinc results are below the PWQO limit (0.02 mg/L). Figure 31b presents the total zinc results for 2022, all results were below the PWQO limit.

Total Mercury

Figure 32a presents the total mercury results for the two Rainy River surface water monitoring sample locations for mid-2015 to 2022. To date, all total mercury results are below the PWQO limit (0.0002 mg/L) and are often below the method detection limit. Figure 32b presents the total mercury results for 2022 which are all below the method detection limit.

Unionized Ammonia

Figure 33a presents the calculated unionized ammonia results for the two Rainy River surface water monitoring sample locations for late 2015 to 2022. To date, all calculated unionized ammonia results are below the PWQO limit (0.02 mg/L). Figure 33b presents the calculated unionized ammonia results for 2022.

Free Cyanide

Figure 34a presents the free cyanide results for the two Rainy River surface water monitoring sample locations for early 2018 to 2022. To date, all free cyanide results are below the PWQO limit (0.005 mg/L) except for one sample. Figure 34b presents the free cyanide results for 2022, which are all below the limit.

4. Discharge Water Quality Data and Trends

Three final discharge points were active in 2022, the final discharge point locations are marked on Figure 1. The discharge locations and dates are summarized below:

- Sediment Pond #2, 136 days total
 - April 12 through July 4
 - July 6
 - July 28 through August 7
 - September 19 through September 28
 - October 18 through November 16
- Effluent Discharge Location #1 (EDL1) – 129 days total
 - April 12 through July 4
 - July 6
 - July 30 through August 7
 - September 20 through September 28
 - October 20 through November 3
 - November 7 through November 17
- Effluent Discharge Location #2 (EDL2) – 70 days total
 - April 17 to June 8
 - October 20 through October 22
 - October 26 through November 3
 - November 7 through November 10

As a part of the Monthly Sewage Works Performance report required under Condition 12(5), effluent discharge quality results for key parameters, including PWQO and ECA limits and objective parameters are reported in tabular format. These tables are included with this report in Appendix C which contains copies of the 2022 Monthly Performance Reports and provided in spreadsheet format.

4.1. Sediment Pond 2

In 2022, Sediment Pond 2 effluent discharge quality was compliant with all PWQO and ECA limits and objectives.

4.2. EDL1

In 2022, EDL 1 effluent discharge quality was compliant with all PWQO and ECA limits and objectives.

4.3. EDL2

In 2022, EDL2 effluent discharge quality was compliant with all ECA limits and objectives.

5. Effluent Discharge Rates and Mixing Ratios

Pursuant to Condition 4(8) and 4(9) of the ECA, no effluent was discharged to the Pinewood River via EDL1 and/or EDL2 before the spring melt when the Pinewood River was largely ice free and the minimum flow threshold was met at H1 hydrometric station (10,000 m³/day). In 2022, the planned effluent discharges at RRM met or were below the mixing/dilution ratio limits prescribed in Conditions

4(10), 6(6) and 6(7) except the July 4, 2022, EDL 1 dilution ratio (1: 1.41), which exceeded the 1:1 ratio. This exceedance was reported to the Kenora Area MECP office.

As a part of the Monthly Sewage Works Performance report required under Condition 12(5), Pinewood River flow, effluent discharge rates and dilution/mixing ratios are reported in tabular format. These tables are included with this report in Appendix C which contains copies of the 2022 Monthly Performance Reports and provided in spreadsheet format.

5.1. Sediment Pond 2

In 2022, from April 12 to November 2, the 1:10 dilution ratio required by ECA Condition 6(7) for discharge to the Pinewood at the Sediment Pond 2 final discharge point was always met during active discharge within 1%. Starting on November 3, Sediment Pond 2 discharge dilution ratio was set at a 1:1 with the Pinewood River as it met Provincial Water Quality Objectives and Canadian Water Quality Guidelines for the Protection of Aquatic Life.

5.2. EDL1

Condition 4(10) of the ECA requiring that the combined discharge dilution ratio for both EDL1 and EDL2 combined not exceed 1:1 with the flow in the Pinewood River recorded at H1 hydrometric station was always met during active discharge, except the July 4, 2022, EDL 1 dilution ratio (1: 1.41).

5.3. EDL2

Condition 4(10) of the ECA requiring that the combined discharge dilution ratio for both EDL1 and EDL2 combined not exceed 1:1 with the flow in the Pinewood River recorded at H1 hydrometric station was always met during active discharge, except the July 4, 2022, EDL 1 dilution ratio (1: 1.41).

6. Incidents of Non-Compliance

In 2022, there was an incident or occurrence that required an investigation, implementation of a contingency or remedial action plan at RRM. On July 4th, Environment EIT sent out River Flow email to all discharging departments. No email was received confirming receipt of email and confirmation that EDL1 flow had been changed. On July 5, 2022, Environment EIT logged into PARCView to calculate discharge volume for the next 24 hours and observed, in PARCView, that quantity discharged exceeded permitted amount by 5,707 m³ on July 4, 2022. Email was sent to River Flow distribution list to cease discharge for the next 24 hours from all points as average is carried into the next 24 hours discharge calculation.

On July 29th, the New Gold Environmental Department was made aware that Pump #11 had been turned on in error. Pump #11 discharges Outflow Basin to EDL2 which is a permitted discharge point in the Pinewood River. This discharge occurred from 2000 hours on 2022-07-28 to 0600 hours 2022-07-29 discharging 3502 m³ of mine effluent to the Pinewood River. Water samples, including acute toxicity, were collected. In terms of water quality only total zinc was slightly higher than the daily ECA limit, and the Pinewood River was observed in two locations downstream for evidence of adverse effects such as fish kill, no adverse effects were observed.

On August 7, 2022, the approved maximum daily discharge was 13,485 m³ of water. The approved volume was informed as usual to the discharge pump’s operator via email by the Environment Department. After investigation, was determined that a miscalculation in the hourly rate of discharge was made by the operators, subsequently a volume of 17,838 m³ of water was discharged to the Pinewood River. Because of this extra 4,353 m³ of discharge, the effluent flow ratio to the flow rate of the Pinewood River during August 7, 2022, was 1:1.3, differing from the 1:1 ratio as per condition 4 (10) of ECA #2290-CAVKGN.

7. Closing

This environmental compliance report was prepared by the New Gold Rainy River Mine Environment Department in accordance with generally accepted industry-standards. If you require further information, please contact Garnet Cornell at 807-234-8200 ext. 8163.

Table 1: Updated Receiving Surface Water Sampling Location

| Sampling Location | Description | UTM Coordinates (NAD 83) (Zone, Easting Northing) |
|-------------------|--|--|
| SW20 | Pinewood River - at Heatwole Rd | 15, 4351015, 5407720 |
| SW10 | Pinewood River - at former Hwy 600 | 15, 427720, 5407085 |
| SW21A | Pinewood River - upstream of the confluence with Loslo Creek EDL2 | 15, 422189, 5409251 |
| SW22A | Pinewood River - downstream of the confluence with Loslo Creek EDL2 | 15, 421846, 5409039 |
| SW03 | Pinewood River – upstream of realigned Hwy 600 | 15, 419490, 5408130 |
| SW23 | Pinewood River – upstream of EDL1 | 15, 415490, 5407225 |
| SW24 | Pinewood River – downstream of EDL1 | 15, 415455, 5407110 |
| SW15 | Pinewood River - upstream of the confluence with Rainy River | 15, 404750, 5397655 |
| SW28A | Clark Creek - downstream of the Clark Creek Diversion | 15, 430150, 540818 |
| SW02 | West Creek - within West Creek, near Roen Pit | 15, 426295, 5411780 |
| SW25 | West Creek within the West Creek Diversion, near Sediment Pond #1 | 15, 424080, 5411560 15, 422560, 5410225 |
| SW26 | West Creek - within the West Creek Diversion, near Sediment Pond #2 | 15, 422560, 5410225 |
| SW27 | Loslo Creek - downstream of West Creek Diversion confluence and upstream of EDL2 | 15, 421785, 5409515 |
| SW29 | Tait Creek - upstream of the EDL1 pipeline creek crossing | 15, 418294, 5407017 |
| SW16 | Rainy River - upstream of the Pinewood River confluence | 15, 438855, 5385790 |
| SW17 | Rainy River - downstream of the Pinewood River confluence | 15, 393195, 5394425 |

Table 2: Average 2022 Pinewood River Water Quality for Selected Parameters

| Location | SW20 | SW10 | SW21A | SW22A | SW03 | SW23 | SW24 | SW15 | |
|-------------------------------|-------------------------|----------------------------|---------------------------|-----------------------------|--|---------------------------|-----------------------------|---|--|
| Description | Pinewood at Heatwole Rd | Pinewood at former Hwy 600 | Pinewood upstream of EDL2 | Pinewood downstream of EDL2 | Pinewood upstream of realigned Hwy 600 | Pinewood upstream of EDL1 | Pinewood downstream of EDL1 | Pinewood upstream of Rainy River Confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.0372 | 0.0618 | 0.0302 | 0.0331 | 0.0411 | 0.0472 | 0.0780 | 0.0515 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0123 | 0.0100 | 0.0084 | 0.0084 | 0.0100 | 0.0093 | 0.0100 | 0.0100 | 0.02* ¹ |
| Cyanide, Free (mg/L) | 0.0012 | 0.0008 | 0.0011 | 0.0009 | 0.0010 | 0.0010 | 0.0010 | 0.0008 | 0.005 ¹ |
| Cyanide, Total (mg/L) | 0.0008 | 0.0010 | 0.0010 | 0.0011 | 0.0009 | 0.0012 | 0.0010 | 0.0009 | 0.005* ¹ |
| Field pH (mg/L) | 6.74 | 6.97 | 7.33 | 7.31 | 7.06 | 7.00 | 6.93 | 7.03 | 6.5-8.5 [^] |
| Total Suspended Solids (mg/L) | 6.70 | 6.3 | 4.6 | 4.3 | 5.8 | 11.3 | 8.0 | 8.7 | 30 ¹ |
| Aluminium, Total (mg/L) | 0.209 | 0.226 | 0.117 | 0.172 | 0.232 | 0.4 | 0.3 | 0.4 | 0.075 [^] |
| Arsenic, Total (mg/L) | 0.0011 | 0.0012 | 0.0014 | 0.0013 | 0.0015 | 0.0017 | 0.0015 | 0.0014 | 0.01 ¹ |
| Cadmium, Total (mg/L) | 0.000010 | 0.000010 | 0.000010 | 0.000011 | 0.000012 | 0.00001 | 0.00001 | 0.00002 | 0.0001-0.0005 [^] |
| Chromium, Total (mg/L) | 0.0008 | 0.0007 | 0.0005 | 0.0006 | 0.0007 | 0.0009 | 0.0008 | 0.0010 | 0.001* [^] |
| Cobalt, Total (mg/L) | 0.0003 | 0.0003 | 0.0006 | 0.0005 | 0.0004 | 0.0006 | 0.0006 | 0.0005 | 0.0009 [^] |
| Copper, Total (mg/L) | 0.00081 | 0.00104 | 0.00062 | 0.00091 | 0.00163 | 0.0015 | 0.0015 | 0.0017 | 0.005 [^] ,0.008 ¹ |
| Iron, Total (mg/L) | 0.635 | 0.672 | 0.801 | 0.747 | 0.682 | 1.1087 | 1.0458 | 0.9835 | 0.3* [^] |
| Lead, Total (mg/L) | 0.000178 | 0.000207 | 0.000098 | 0.000131 | 0.000443 | 0.0003 | 0.0003 | 0.0007 | 0.008 ¹ |
| Mercury, Total (mg/L) | 0.000013 | 0.000013 | 0.000012 | 0.000012 | 0.000011 | 0.00001 | 0.00001 | 0.00001 | 0.0002 [^] |
| Nickel, Total (mg/L) | 0.00148 | 0.00170 | 0.00153 | 0.00160 | 0.00209 | 0.0023 | 0.0022 | 0.0020 | 0.025 ¹ |
| Phosphorus, Total (mg/L) | 0.036 | 0.046 | 0.077 | 0.070 | 0.066 | 0.072 | 0.063 | 0.055 | 0.1 ¹ |
| Zinc, Total (mg/L) | 0.00418 | 0.00970 | 0.00246 | 0.00501 | 0.00412 | 0.0036 | 0.0047 | 0.0043 | 0.02 [^] |

* CEQG

[^] PWQO

¹ ECA SW Trigger Value

Table 3: Average 2021 Pinewood River Water Quality for Selected Parameters

| Location | SW20 | SW10 | SW21A | SW22A | SW03 | SW23 | SW24 | SW15 | |
|-------------------------------|-------------------------|----------------------------|---------------------------|-----------------------------|--|---------------------------|-----------------------------|---|-----------------------------|
| Description | Pinewood at Heatwole Rd | Pinewood at former Hwy 600 | Pinewood upstream of EDL2 | Pinewood downstream of EDL2 | Pinewood upstream of realigned Hwy 600 | Pinewood upstream of EDL1 | Pinewood downstream of EDL1 | Pinewood upstream of Rainy River Confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.0247 | 0.0197 | 0.0303 | 0.0304 | 0.0347 | 0.0232 | 0.0528 | 0.0397 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0061 | 0.0061 | 0.0052 | 0.0056 | 0.0052 | 0.0048 | 0.0047 | 0.0048 | 0.02**^1 |
| Cyanide, Free (mg/L) | 0.0009 | 0.0008 | 0.0012 | 0.0006 | 0.0009 | 0.0008 | 0.0008 | 0.0008 | 0.005 ¹ |
| Cyanide, Total (mg/L) | 0.0011 | 0.0011 | 0.0011 | 0.0010 | 0.0011 | 0.0011 | 0.0012 | 0.0011 | 0.005*^1 |
| Field pH (mg/L) | 7.14 | 7.47 | 7.13 | 7.10 | 7.40 | 7.45 | 7.35 | 7.61 | 6.5-8.5^1 |
| Total Suspended Solids (mg/L) | 5.40 | 5.9 | 9.4 | 7.8 | 8.8 | 9.8 | 8.3 | 11.2 | 30 ¹ |
| Aluminium, Total (mg/L) | 0.150 | 0.200 | 0.123 | 0.148 | 0.286 | 0.4 | 0.4 | 0.4 | 0.075^1 |
| Arsenic, Total (mg/L) | 0.0012 | 0.0014 | 0.0018 | 0.0016 | 0.0017 | 0.0021 | 0.0022 | 0.0200 | 0.01 ¹ |
| Cadmium, Total (mg/L) | 0.000010 | 0.000011 | 0.000007 | 0.000009 | 0.000014 | 0.00002 | 0.00002 | 0.00002 | 0.0001-0.0005^1 |
| Chromium, Total (mg/L) | 0.0004 | 0.0005 | 0.0004 | 0.0004 | 0.0006 | 0.0009 | 0.0008 | 0.0009 | 0.001*^1 |
| Cobalt, Total (mg/L) | 0.0005 | 0.0005 | 0.0007 | 0.0009 | 0.0007 | 0.0008 | 0.0008 | 0.0004 | 0.0009^1 |
| Copper, Total (mg/L) | 0.00085 | 0.00097 | 0.00097 | 0.00100 | 0.00242 | 0.0017 | 0.0018 | 0.0020 | 0.005^1, 0.008 ¹ |
| Iron, Total (mg/L) | 0.974 | 0.738 | 0.987 | 1.354 | 0.811 | 1.1023 | 1.0297 | 0.6844 | 0.3*^1 |
| Lead, Total (mg/L) | 0.000131 | 0.000165 | 0.000099 | 0.000129 | 0.000220 | 0.0004 | 0.0004 | 0.0007 | 0.008 ¹ |
| Mercury, Total (mg/L) | 0.000026 | 0.000025 | 0.000028 | 0.000022 | 0.000018 | 0.00002 | 0.00002 | 0.00002 | 0.0002^1 |
| Nickel, Total (mg/L) | 0.00146 | 0.00163 | 0.00140 | 0.00166 | 0.00236 | 0.0024 | 0.0024 | 0.0018 | 0.025 ¹ |
| Phosphorus, Total (mg/L) | 0.048 | 0.049 | 0.139 | 0.104 | 0.069 | 0.063 | 0.062 | 0.086 | 0.1 ¹ |
| Zinc, Total (mg/L) | 0.00347 | 0.00260 | 0.00304 | 0.00328 | 0.00470 | 0.0033 | 0.0045 | 0.0052 | 0.02^1 |

* CEQG

^ PWQO

¹ ECA SW Trigger Value

Table 4: Average 2020 Pinewood River Water Quality for Selected Parameters

| Location | SW20 | SW10 | SW21A | SW22A | SW03 | SW23 | SW24 | SW15 | |
|-------------------------------|-------------------------|----------------------------|---------------------------|-----------------------------|--|---------------------------|-----------------------------|---|--|
| Description | Pinewood at Heatwole Rd | Pinewood at former Hwy 600 | Pinewood upstream of EDL2 | Pinewood downstream of EDL2 | Pinewood upstream of realigned Hwy 600 | Pinewood upstream of EDL1 | Pinewood downstream of EDL1 | Pinewood upstream of Rainy River Confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.0331 | 0.040 | 0.042 | 0.044 | 0.068 | 0.041 | 0.072 | 0.049 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0008 | 0.0008 | 0.0009 | 0.0009 | 0.0016 | 0.0009 | 0.0012 | 0.0010 | 0.02* ^{^1} |
| Cyanide, Free (mg/L) | 0.0009 | 0.0008 | 0.0007 | 0.0007 | 0.0007 | 0.0010 | 0.0007 | 0.0008 | 0.005 ¹ |
| Cyanide, Total (mg/L) | 0.0006 | 0.0008 | 0.0006 | 0.0006 | 0.0008 | 0.0011 | 0.0010 | 0.0007 | 0.005* [^] |
| Field pH (mg/L) | 7.21 | 7.29 | 7.31 | 7.37 | 7.26 | 7.26 | 7.26 | 7.32 | 6.5-8.5 [^] |
| Total Suspended Solids (mg/L) | 4.5 | 5.0 | 7.4 | 6.4 | 11.6 | 13.5 | 10.1 | 12.0 | 30 ¹ |
| Aluminium, Total (mg/L) | 0.185 | 0.194 | 0.233 | 0.202 | 0.401 | 0.568 | 0.406 | 0.610 | 0.075 [^] |
| Arsenic, Total (mg/L) | 0.0011 | 0.0013 | 0.0014 | 0.0016 | 0.0014 | 0.0019 | 0.0017 | 0.0017 | 0.01 ¹ |
| Cadmium, Total (mg/L) | 0.000010 | 0.000012 | 0.000011 | 0.000011 | 0.000017 | 0.000020 | 0.000018 | 0.000021 | 0.0001-0.0005 [^] |
| Chromium, Total (mg/L) | 0.0005 | 0.0005 | 0.0006 | 0.0005 | 0.0009 | 0.0014 | 0.0012 | 0.0013 | 0.001* [^] |
| Cobalt, Total (mg/L) | 0.0004 | 0.0004 | 0.0005 | 0.0005 | 0.0005 | 0.0007 | 0.0007 | 0.0006 | 0.0009 [^] |
| Copper, Total (mg/L) | 0.00082 | 0.00094 | 0.00111 | 0.00147 | 0.00325 | 0.00191 | 0.00292 | 0.00239 | 0.005 [^] ,0.008 ¹ |
| Iron, Total (mg/L) | 0.767 | 0.664 | 0.804 | 0.617 | 0.853 | 1.161 | 1.017 | 1.198 | 0.3* [^] |
| Lead, Total (mg/L) | 0.000143 | 0.000159 | 0.000176 | 0.000187 | 0.000293 | 0.000523 | 0.000365 | 0.000615 | 0.008 ¹ |
| Mercury, Total (mg/L) | 0.000005 | 0.000005 | 0.000005 | 0.000005 | 0.000005 | 0.000004 | 0.000005 | 0.000005 | 0.0002 [^] |
| Nickel, Total (mg/L) | 0.00152 | 0.00179 | 0.00183 | 0.00177 | 0.00274 | 0.00262 | 0.00233 | 0.00249 | 0.025 ¹ |
| Phosphorus, Total (mg/L) | 0.002 | 0.050 | 0.069 | 0.062 | 0.054 | 0.059 | 0.057 | 0.055 | 0.1 ¹ |
| Zinc, Total (mg/L) | 0.00383 | 0.00305 | 0.00488 | 0.00524 | 0.00523 | 0.00401 | 0.00430 | 0.00533 | 0.02 [^] |

* CEQG

[^] PWQO

¹ ECA SW Trigger Value

Table 5: Average 2019 Pinewood River Water Quality for Selected Parameters

| Location | SW20 | SW10 | SW21A | SW22A | SW03 | SW23 | SW24 | SW15 | |
|-------------------------------|-------------------------|----------------------------|---------------------------|-----------------------------|--|---------------------------|-----------------------------|---|---|
| Description | Pinewood at Heatwole Rd | Pinewood at former Hwy 600 | Pinewood upstream of EDL2 | Pinewood downstream of EDL2 | Pinewood upstream of realigned Hwy 600 | Pinewood upstream of EDL1 | Pinewood downstream of EDL1 | Pinewood upstream of Rainy River Confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.1292 | 0.062 | 0.106 | 0.090 | 0.116 | 0.041 | 0.075 | 0.029 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0013 | 0.0011 | 0.0010 | 0.0009 | 0.0011 | 0.0009 | 0.0010 | 0.0010 | 0.02* ¹ |
| Cyanide, Free (mg/L) | 0.0008 | 0.0008 | 0.0008 | 0.0008 | 0.0008 | 0.0010 | 0.0011 | 0.0006 | 0.005 ¹ |
| Cyanide, Total (mg/L) | 0.0008 | 0.0010 | 0.0009 | 0.0009 | 0.0011 | 0.0011 | 0.0011 | 0.0008 | 0.005* ¹ |
| Field pH (mg/L) | 7.38 | 7.59 | 7.33 | 7.44 | 7.35 | 7.26 | 7.29 | 7.44 | 6.5-8.5 ¹ |
| Total Suspended Solids (mg/L) | 7.6 | 5.6 | 9.9 | 17.7 | 15.7 | 13.5 | 12.8 | 12.9 | 30 ¹ |
| Aluminium, Total (mg/L) | 0.212 | 0.190 | 0.229 | 0.441 | 0.473 | 0.568 | 0.498 | 0.483 | 0.075 ¹ |
| Arsenic, Total (mg/L) | 0.0013 | 0.0015 | 0.0015 | 0.0015 | 0.0017 | 0.0019 | 0.0019 | 0.0013 | 0.01 ¹ |
| Cadmium, Total (mg/L) | 0.000013 | 0.000014 | 0.000015 | 0.000016 | 0.000024 | 0.000020 | 0.000021 | 0.000016 | 0.0001-0.0005 ¹ |
| Chromium, Total (mg/L) | 0.0010 | 0.0008 | 0.0007 | 0.0011 | 0.0013 | 0.0014 | 0.0013 | 0.0011 | 0.001* ¹ |
| Cobalt, Total (mg/L) | 0.0007 | 0.0008 | 0.0007 | 0.0007 | 0.0011 | 0.0007 | 0.0008 | 0.0004 | 0.0009 ¹ |
| Copper, Total (mg/L) | 0.00103 | 0.00094 | 0.00104 | 0.00182 | 0.00366 | 0.00191 | 0.00200 | 0.00166 | 0.005 ¹ , 0.008 ¹ |
| Iron, Total (mg/L) | 1.273 | 1.022 | 1.145 | 1.329 | 1.454 | 1.161 | 1.354 | 0.781 | 0.3* ¹ |
| Lead, Total (mg/L) | 0.000189 | 0.000184 | 0.000258 | 0.000316 | 0.000392 | 0.000523 | 0.000506 | 0.000377 | 0.008 ¹ |
| Mercury, Total (mg/L) | 0.000004 | 0.000004 | 0.000005 | 0.000004 | 0.000004 | 0.000004 | 0.000004 | 0.000004 | 0.0002 ¹ |
| Nickel, Total (mg/L) | 0.00171 | 0.00191 | 0.00193 | 0.00216 | 0.00318 | 0.00262 | 0.00273 | 0.00176 | 0.025 ¹ |
| Phosphorus, Total (mg/L) | 0.002 | 0.090 | 0.137 | 0.125 | 0.111 | 0.059 | 0.069 | 0.036 | 0.1 ¹ |
| Zinc, Total (mg/L) | 0.00483 | 0.00301 | 0.00295 | 0.00789 | 0.00642 | 0.00401 | 0.00480 | 0.00410 | 0.02 ¹ |

* CEQG

¹ PWQO

¹ ECA SW Trigger Value

Table 6: Average 2018 Pinewood River Water Quality for Selected Parameters

| Location | SW20 | SW10 | SW21A | SW22A | SW03 | SW23 | SW24 | SW15 | |
|-------------------------------|-------------------------|----------------------------|---------------------------|-----------------------------|--|---------------------------|-----------------------------|---|--|
| Description | Pinewood at Heatwole Rd | Pinewood at former Hwy 600 | Pinewood upstream of EDL2 | Pinewood downstream of EDL2 | Pinewood upstream of realigned Hwy 600 | Pinewood upstream of EDL1 | Pinewood downstream of EDL1 | Pinewood upstream of Rainy River confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.1100 | 0.0976 | 0.210 | 0.144 | 0.099 | 0.130 | 0.115 | 0.033 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0010 | 0.0010 | 0.0025 | 0.0020 | 0.0011 | 0.0011 | 0.001 | 0.0012 | 0.02* ¹ |
| Cyanide, Free (mg/L) | 0.0007 | 0.0007 | 0.0006 | 0.0007 | 0.0006 | 0.0008 | 0.0012 | 0.0005 | 0.005 ¹ |
| Cyanide, Total (mg/L) | 0.0006 | 0.0007 | 0.0008 | 0.0007 | 0.0011 | 0.0007 | 0.0007 | 0.0005 | 0.005* ¹ |
| Field pH (mg/L) | 7.40 | 7.57 | 7.79 | 7.70 | 7.65 | 7.70 | 7.74 | 7.92 | 6.5-8.5 ¹ |
| Total Suspended Solids (mg/L) | 4.4 | 8.0 | 16.4 | 10.6 | 12.2 | 20.0 | 28.8 | 9.7 | 30 ¹ |
| Aluminium, Total (mg/L) | 0.133 | 0.223 | 0.274 | 0.259 | 0.501 | 0.937 | 1.176 | 0.797 | 0.075 ¹ |
| Arsenic, Total (mg/L) | 0.0011 | 0.0014 | 0.0019 | 0.0018 | 0.0016 | 0.0019 | 0.0024 | 0.0012 | 0.01 ¹ |
| Cadmium, Total (mg/L) | 0.001090 | 0.000015 | 0.000011 | 0.000010 | 0.000020 | 0.000023 | 0.000026 | 0.000014 | 0.0001-0.0005 ¹ |
| Chromium, Total (mg/L) | 0.0005 | 0.0007 | 0.0008 | 0.0007 | 0.0011 | 0.0018 | 0.0022 | 0.0013 | 0.001* ¹ |
| Cobalt, Total (mg/L) | 0.0005 | 0.0006 | 0.0009 | 0.0006 | 0.0006 | 0.0009 | 0.0011 | 0.0004 | 0.0009 ¹ |
| Copper, Total (mg/L) | 0.00087 | 0.00127 | 0.00126 | 0.00134 | 0.00303 | 0.00225 | 0.00265 | 0.00183 | 0.005 ¹ ,0.008 ¹ |
| Iron, Total (mg/L) | 0.975 | 0.919 | 2.122 | 1.058 | 0.929 | 1.674 | 1.878 | 0.856 | 0.3* ¹ |
| Lead, Total (mg/L) | 0.000163 | 0.000227 | 0.000292 | 0.000232 | 0.000370 | 0.000711 | 0.000900 | 0.000406 | 0.008 ¹ |
| Mercury, Total (mg/L) | 0.000004 | 0.000003 | 0.000003 | 0.000002 | 0.000003 | 0.000005 | 0.000006 | 0.000005 | 0.0002 ¹ |
| Nickel, Total (mg/L) | 0.00156 | 0.00185 | 0.00207 | 0.00205 | 0.00326 | 0.00316 | 0.00359 | 0.00191 | 0.025 ¹ |
| Phosphorus, Total (mg/L) | 0.058 | 0.081 | 0.285 | 0.157 | 0.069 | 0.089 | 0.106 | 0.045 | 0.1 ¹ |
| Zinc, Total (mg/L) | 0.00617 | 0.00340 | 0.00513 | 0.00887 | 0.00631 | 0.00522 | 0.00687 | 0.00415 | 0.02 ¹ |

* CEQG

¹ PWQO

¹ ECA SW Trigger Value

Table 7: Average 2017 Pinewood River Water Quality for Selected Parameters

| Location | SW20 | SW10 | SW21A | SW22A | SW03 | SW23 | SW24 | SW15 | |
|-------------------------------|-------------------------|----------------------------|---------------------------|-----------------------------|--|---------------------------|-----------------------------|---|--|
| Description | Pinewood at Heatwole Rd | Pinewood at former Hwy 600 | Pinewood upstream of EDL2 | Pinewood downstream of EDL2 | Pinewood upstream of realigned Hwy 600 | Pinewood upstream of EDL1 | Pinewood downstream of EDL1 | Pinewood upstream of Rainy River confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.0522 | 0.0462 | 0.110 | 0.104 | 0.106 | | | 0.052 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0008 | 0.0010 | 0.0009 | 0.0010 | 0.0012 | | | 0.0010 | 0.02* ¹ |
| Cyanide, Free (mg/L) | | | | | | | | | 0.005 ¹ |
| Cyanide, Total (mg/L) | 0.0010 | 0.0008 | 0.0010 | 0.0010 | 0.0011 | | | 0.0010 | 0.005* ¹ |
| Field pH (mg/L) | 7.24 | 7.36 | 7.37 | 7.49 | 7.53 | | | 7.57 | 6.5-8.5 ¹ |
| Total Suspended Solids (mg/L) | 2.9 | 7.2 | 4.4 | 3.9 | 12.2 | | | 16.0 | 30 ¹ |
| Aluminium, Total (mg/L) | 0.155 | 0.225 | 0.114 | 0.128 | 0.447 | | | 0.764 | 0.075 ¹ |
| Arsenic, Total (mg/L) | 0.0009 | 0.0011 | 0.0012 | 0.0012 | 0.0013 | | | 0.0013 | 0.01 ¹ |
| Cadmium, Total (mg/L) | 0.000008 | 0.000009 | 0.000008 | 0.000008 | 0.000015 | | | 0.000022 | 0.0001-0.0005 ¹ |
| Chromium, Total (mg/L) | 0.0005 | 0.0006 | 0.0004 | 0.0005 | 0.0009 | | | 0.0015 | 0.001* ¹ |
| Cobalt, Total (mg/L) | 0.0003 | 0.0004 | 0.0003 | 0.0003 | 0.0005 | | | 0.0006 | 0.0009 ¹ |
| Copper, Total (mg/L) | 0.00078 | 0.00088 | 0.00091 | 0.00088 | 0.00179 | | | 0.00192 | 0.005 ¹ ,0.008 ¹ |
| Iron, Total (mg/L) | 0.509 | 0.662 | 0.428 | 0.448 | 0.739 | | | 1.174 | 0.3* ¹ |
| Lead, Total (mg/L) | 0.000090 | 0.000161 | 0.000126 | 0.000090 | 0.000270 | | | 0.000488 | 0.008 ¹ |
| Mercury, Total (mg/L) | 0.000003 | 0.000003 | 0.000003 | 0.000002 | 0.000003 | | | 0.000005 | 0.0002 ¹ |
| Nickel, Total (mg/L) | 0.00143 | 0.00162 | 0.00145 | 0.00155 | 0.00213 | | | 0.00224 | 0.025 ¹ |
| Phosphorus, Total (mg/L) | 0.023 | 0.033 | 0.030 | 0.032 | 0.039 | | | 0.041 | 0.1 ¹ |
| Zinc, Total (mg/L) | 0.00914 | 0.00421 | 0.00513 | 0.00559 | 0.00478 | | | 0.00696 | 0.02 ¹ |

* CEQG

¹ PWQO

¹ ECA SW Trigger Value

Exceedances in bold

Table 8: Average 2016 Pinewood River Water Quality for Selected Parameters

| Location | SW20 | SW10 | SW21A | SW22A | SW03 | SW23 | SW24 | SW15 | |
|-------------------------------|-------------------------|----------------------------|---------------------------|-----------------------------|--|---------------------------|-----------------------------|---|--|
| Description | Pinewood at Heatwole Rd | Pinewood at former Hwy 600 | Pinewood upstream of EDL2 | Pinewood downstream of EDL2 | Pinewood upstream of realigned Hwy 600 | Pinewood upstream of EDL1 | Pinewood downstream of EDL1 | Pinewood upstream of Rainy River confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.0379 | 0.0469 | 0.091 | 0.050 | 0.061 | | | 0.026 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0010 | 0.0010 | 0.001 | 0.0010 | 0.0010 | | | 0.0013 | 0.02* ¹ |
| Cyanide, Free (mg/L) | | | | | | | | | 0.005 ¹ |
| Cyanide, Total (mg/L) | | | | | | | | | 0.005* ¹ |
| Field pH (mg/L) | 7.14 | 7.27 | 7.23 | 7.28 | 7.34 | | | 7.49 | 6.5-8.5 ¹ |
| Total Suspended Solids (mg/L) | 4.0 | 8.4 | 8.7 | 3.7 | 11.4 | | | 16.1 | 30 ¹ |
| Aluminium, Total (mg/L) | 0.207 | 0.284 | 0.152 | 0.137 | 0.343 | | | 0.717 | 0.075 ¹ |
| Arsenic, Total (mg/L) | 0.0010 | 0.0011 | 0.0011 | 0.0011 | 0.0012 | | | 0.0013 | 0.01 ¹ |
| Cadmium, Total (mg/L) | 0.000011 | 0.000010 | 0.000013 | 0.000010 | 0.000015 | | | 0.000021 | 0.0001-0.0005 ¹ |
| Chromium, Total (mg/L) | 0.0006 | 0.0008 | 0.0005 | 0.0004 | 0.0008 | | | 0.0014 | 0.001* ¹ |
| Cobalt, Total (mg/L) | 0.0004 | 0.0005 | 0.0003 | 0.0004 | 0.0005 | | | 0.0005 | 0.0009 ¹ |
| Copper, Total (mg/L) | 0.00086 | 0.00100 | 0.00115 | 0.00081 | 0.00166 | | | 0.00201 | 0.005 ¹ ,0.008 ¹ |
| Iron, Total (mg/L) | 0.766 | 0.816 | 0.517 | 0.585 | 0.837 | | | 1.064 | 0.3* ¹ |
| Lead, Total (mg/L) | 0.000149 | 0.000218 | 0.000153 | 0.000111 | 0.000232 | | | 0.000513 | 0.008 ¹ |
| Mercury, Total (mg/L) | 0.000003 | 0.000003 | 0.000002 | 0.000003 | 0.000003 | | | 0.000003 | 0.0002 ¹ |
| Nickel, Total (mg/L) | 0.00158 | 0.00170 | 0.00167 | 0.00144 | 0.00207 | | | 0.00222 | 0.025 ¹ |
| Phosphorus, Total (mg/L) | | | | | | | | | 0.1 ¹ |
| Zinc, Total (mg/L) | 0.00395 | 0.00621 | 0.00530 | 0.00240 | 0.00354 | | | 0.00642 | 0.02 ¹ |

* CEQG

¹ PWQO

¹ ECA SW Trigger Value

Exceedances in bold

Table 9: 2022 ECA Surface Water Trigger Values for Surface Water Location SW22A

| Location | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) |
|---|---------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|
| ECA Surface Water Trigger Value | | 0.020 | 0.005 | 30 | 0.01 | 0.008 | 0.008 | 0.025 | 0.1 |
| SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2 | 2022-01-11 | <i>0.0100</i> | 0.0002 | 4.0 | 0.0012 | 0.0009 | 0.0002 | 0.0020 | 0.1000 |
| | 2022-02-16 | <i>0.0100</i> | 0.0008 | 5.0 | 0.0011 | 0.0007 | 0.0001 | 0.0017 | 0.1100 |
| | 2022-03-08 | <i>0.0100</i> | 0.0004 | 3.5 | 0.0010 | 0.0008 | 0.0002 | 0.0019 | 0.1100 |
| | 2022-04-05 | <i>0.0010</i> | 0.0006 | 3.0 | 0.0006 | 0.0014 | 0.0002 | 0.0012 | 0.0300 |
| | 2022-05-04 | <i>0.0100</i> | 0.0011 | 3.5 | 0.0006 | 0.0017 | 0.0002 | 0.0012 | 0.0300 |
| | 2022-06-07 | <i>0.0100</i> | 0.0004 | 3.5 | 0.0017 | 0.0014 | 0.0001 | 0.0016 | 0.0600 |
| | 2022-07-12 | | 0.0006 | 5.5 | 0.0021 | 0.0009 | 0.0001 | 0.0016 | 0.1100 |
| | 2022-08-10 | <i>0.0100</i> | 0.0007 | 8.0 | 0.0020 | 0.0010 | 0.0002 | 0.0021 | 0.0550 |
| | 2022-09-07 | | 0.0020 | 6.0 | 0.0020 | 0.0007 | 0.0001 | 0.0016 | 0.0750 |
| | 2022-10-04 | <i>0.0100</i> | 0.0020 | 2.0 | 0.0011 | 0.0006 | 0.0000 | 0.0012 | 0.0300 |
| 2022-11-11 | <i>0.0100</i> | 0.0011 | 3.0 | 0.0010 | 0.0007 | 0.0001 | 0.0012 | 0.0280 | |
| 2022-12-11 | | 0.0040 | 0.0003 | 3.5 | 0.0010 | 0.0006 | 0.0002 | 0.0016 | 0.0650 |

Italicized results denote <DL

Table 10: 2022 ECA Surface Water Trigger Values for Surface Water Location SW24

| Location | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) |
|---|-------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|
| ECA Surface Water Trigger Value | | 0.020 | 0.005 | 30 | 0.01 | 0.008 | 0.008 | 0.025 | 0.1 |
| SW24 -Pinewood River downstream of EDL1 | 2022-01-11 | <i>0.0100</i> | 0.0003 | 9.50 | 0.0013 | 0.0019 | 0.00029 | 0.00246 | 0.07 |
| | 2022-02-08 | <i>0.0100</i> | 0.0015 | 13.00 | 0.00129 | 0.00156 | 0.00043 | 0.00278 | 0.075 |
| | 2022-03-08 | <i>0.0100</i> | 0.002 | 7.50 | 0.00123 | 0.00132 | 0.00036 | 0.0025 | 0.105 |
| | 2022-04-05 | <i>0.0010</i> | 0.0007 | 3.50 | 0.0006 | 0.0013 | 0.00017 | 0.0013 | 0.035 |
| | 2022-05-03 | <i>0.0100</i> | 0.002 | 4.00 | 0.00069 | 0.0015 | 0.00022 | 0.00116 | 0.03 |
| | 2022-06-07 | <i>0.0100</i> | 0.0008 | 6.50 | 0.0013 | 0.0016 | 0.00021 | 0.00168 | 0.03 |
| | 2022-07-05 | | 0.0005 | 6.00 | 0.00235 | 0.00134 | 0.00027 | 0.00218 | 0.075 |
| | 2022-08-10 | <i>0.0100</i> | 0.0003 | 9 | 0.00297 | 0.00134 | 0.00031 | 0.0026 | 0.085 |
| | 2022-10-04 | <i>0.0100</i> | 0.0007 | 9.50 | 0.00164 | 0.0012 | 0.00028 | 0.00204 | 0.046 |
| | 2022-11-12 | <i>0.0100</i> | 0.0005 | 7.00 | 0.00091 | 0.00138 | 0.000116 | 0.00256 | 0.05 |

Italicized results denote <DL

Table 11: 2021 ECA Surface Water Trigger Values for Surface Water Location SW22A

| Location | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspended Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) | Zinc, Total (mg/L) |
|---|-------------|---------------------------|----------------------|-------------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|--------------------|
| ECA Surface Water Trigger Value | | 0.020 | 0.005 | 30 | 0.01 | 0.008 | 0.008 | 0.025 | 0.1 | 0.09 |
| SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2 | 2021-01-12 | 0.0001 | 0.0005 | 13.5 | 0.0018 | 0.0007 | 0.0002 | 0.0021 | 0.2300 | 0.0050 |
| | 2021-02-17 | 0.0003 | 0.0005 | 26.5 | 0.0030 | 0.0016 | 0.0004 | 0.0027 | 0.3660 | 0.0120 |
| | 2021-03-24 | 0.0000 | 0.0002 | 4.0 | 0.0007 | 0.0010 | 0.0002 | 0.0012 | 0.0460 | 0.0026 |
| | 2021-04-21 | 0.0001 | 0.0005 | 2.5 | 0.0007 | 0.0012 | 0.0001 | 0.0012 | 0.0180 | 0.0014 |
| | 2021-05-12 | 0.0100 | 0.0007 | 3.0 | 0.0011 | 0.0011 | 0.0000 | 0.0014 | 0.0150 | 0.0010 |
| | 2021-06-08 | 0.0100 | 0.0010 | 8.5 | 0.0030 | 0.0005 | 0.0001 | 0.0017 | 0.1350 | 0.0015 |
| | 2021-07-09 | | | | | | | | | |
| | 2021-08-10 | | | | | | | | | |
| | 2021-09-15 | 0.0100 | 0.0002 | 8.5 | 0.0016 | 0.0006 | 0.0001 | 0.0018 | 0.0750 | 0.0020 |
| | 2021-10-13 | 0.0100 | 0.0006 | 2.5 | 0.0013 | 0.0011 | 0.0000 | 0.0016 | 0.0400 | 0.0020 |
| | 2021-11-09 | 0.0100 | 0.0013 | 1.0 | 0.0012 | 0.0013 | 0.0000 | 0.0012 | 0.0100 | 0.0020 |
| 2021-12-14 | 0.0100 | 0.0003 | 16.0 | 0.0010 | 0.0011 | 0.0001 | 0.0019 | 0.0250 | 0.0170 | |

Italicized results denote <DL

Table 12: 2021 ECA Surface Water Trigger Values for Surface Water Location SW24

| Location | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspended Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) | Zinc, Total (mg/L) |
|---|-------------|---------------------------|----------------------|-------------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|--------------------|
| ECA Surface Water Trigger Value | | 0.020 | 0.005 | 30 | 0.01 | 0.008 | 0.008 | 0.025 | 0.1 | 0.09 |
| SW24 -Pinewood River downstream of EDL1 | 2021-01-12 | 0.0001 | 0.0003 | 10.50 | 0.00147 | 0.0015 | 0.0008 | 0.00264 | 0.07 | 0.0045 |
| | 2021-02-17 | 0.0004 | 0.0007 | 13.00 | 0.0019 | 0.0023 | 0.0004 | 0.00348 | 0.102 | 0.015 |
| | 2021-03-23 | 0.0000 | 0.0004 | 6.50 | 0.00078 | 0.0012 | 0.0005 | 0.00134 | 0.044 | 0.0026 |
| | 2021-04-20 | 0.0001 | 0.0006 | 6.50 | 0.00078 | 0.0013 | 0.0006 | 0.00124 | 0.02 | 0.0018 |
| | 2021-05-11 | 0.0100 | 0.0004 | 8.50 | 0.00114 | 0.00192 | 0.0012 | 0.00206 | 0.03 | 0.0025 |
| | 2021-06-08 | 0.0100 | 0.0007 | 15.00 | 0.00384 | 0.00274 | 0.0006 | 0.0038 | 0.105 | 0.006 |
| | 2021-07-13 | 0.0020 | 0.0013 | 4.00 | 0.00707 | 0.00158 | 0.0013 | 0.00366 | 0.125 | 0.003 |
| | 2021-08-14 | | | | | | | | | |
| | 2021-09-15 | | | | | | | | | |
| | 2021-10-13 | 0.0100 | 0.001 | 7.50 | 0.00147 | 0.00132 | 0.0012 | 0.00182 | 0.05 | 0.004 |
| | 2021-11-09 | 0.0100 | 0.0014 | 3.00 | 0.00123 | 0.00232 | 0.0007 | 0.00134 | 0.01 | 0.0015 |
| 2021-12-10 | | | | | | | | | | |

Italicized results denote <DL

Table 13: 2020 ECA Surface Water Trigger Values for Surface Water Location SW22A

| Location | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) | Zinc, Total (mg/L) |
|---|---------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|--------------------|
| ECA Surface Water Trigger Value | | 0.020 | 0.005 | 30 | 0.01 | 0.008 | 0.008 | 0.025 | 0.1 | 0.09 |
| SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2 | 2020-01-09 | <i>0.0010</i> | 0.0008 | 9.5 | 0.0010 | 0.00148 | 0.000240 | 0.0021 | 0.080 | 0.010 |
| | 2020-02-05 | <i>0.0010</i> | 0.0008 | 6.0 | 0.0010 | 0.00116 | 0.000215 | 0.0020 | 0.080 | 0.009 |
| | 2020-03-11 | <i>0.0010</i> | 0.0013 | 8.5 | 0.0010 | 0.00144 | 0.000240 | 0.0021 | 0.080 | 0.023 |
| | 2020-04-09 | <i>0.0010</i> | 0.0006 | 9.0 | 0.0007 | 0.00166 | 0.000310 | 0.0016 | 0.052 | 0.004 |
| | 2020-05-13 | <i>0.0010</i> | 0.0004 | 9.5 | 0.0010 | 0.00144 | 0.000230 | 0.0017 | 0.032 | 0.004 |
| | 2020-06-17 | 0.0007 | 0.0011 | 5.0 | 0.0016 | 0.00095 | 0.000180 | 0.0018 | 0.088 | 0.003 |
| | 2020-07-10 | 0.0010 | 0.0006 | 3.0 | 0.0021 | 0.00080 | 0.000090 | 0.0016 | 0.005 | 0.002 |
| | 2020-08-11 | <i>0.0010</i> | 0.0006 | 20.0 | 0.0040 | 0.00188 | 0.000430 | 0.0025 | 0.205 | 0.006 |
| | 2020-09-15 | <i>0.0010</i> | 0.0003 | 4.0 | 0.0015 | 0.00026 | 0.000030 | 0.0012 | 0.070 | 0.001 |
| | 2020-10-19 | <i>0.0010</i> | 0.0003 | 2.5 | 0.0026 | 0.00096 | 0.000080 | 0.0011 | 0.005 | 0.002 |
| | 2020-11-04 | <i>0.0010</i> | 0.0007 | 1.5 | 0.0013 | 0.00264 | 0.000150 | 0.0017 | 0.015 | 0.001 |
| 2020-11-10 | <i>0.0010</i> | 0.0008 | 0.5 | 0.0013 | 0.00370 | 0.000100 | 0.0016 | 0.020 | 0.002 | |
| 2020-12-16 | 0.0001 | 0.0007 | 4.5 | 0.0012 | 0.00080 | 0.000130 | 0.0020 | 0.075 | 0.004 | |

Italicized results denote <DL

Table 14: 2020 ECA Surface Water Trigger Values for Surface Water Location SW24

| Location | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) | Zinc, Total (mg/L) |
|--|-------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|--------------------|
| ECA Surface Water Trigger Value | | 0.020 | 0.005 | 30 | 0.01 | 0.008 | 0.008 | 0.025 | 0.1 | 0.09 |
| SW24 - Pinewood River downstream of EDL1 | 2020-01-09 | <i>0.0010</i> | 0.0004 | 10.5 | 0.0010 | 0.00152 | 0.00037 | 0.00234 | 0.065 | 0.0058 |
| | 2020-02-04 | <i>0.0010</i> | 0.0007 | 9.5 | 0.0010 | 0.00150 | 0.00035 | 0.00216 | 0.070 | 0.0044 |
| | 2020-03-10 | <i>0.0010</i> | 0.0008 | 22.0 | 0.0011 | 0.00160 | 0.00051 | 0.00262 | 0.085 | 0.0075 |
| | 2020-04-07 | <i>0.0010</i> | 0.0008 | 19.0 | 0.0007 | 0.00166 | 0.00039 | 0.00180 | 0.060 | 0.0040 |
| | 2020-05-12 | 0.0050 | 0.0005 | 11.5 | 0.0014 | 0.00318 | 0.00031 | 0.00214 | 0.024 | 0.0035 |
| | 2020-06-17 | 0.0006 | 0.0015 | 19.0 | 0.0019 | 0.00230 | 0.00052 | 0.00268 | 0.050 | 0.0044 |
| | 2020-07-07 | 0.0006 | 0.0013 | 15.0 | 0.0038 | 0.00220 | 0.00064 | 0.00286 | 0.132 | 0.0038 |
| | 2020-08-11 | <i>0.0010</i> | 0.0005 | 4.0 | 0.0024 | 0.00332 | 0.00041 | 0.00378 | 0.060 | 0.0025 |
| | 2020-09-15 | <i>0.0010</i> | 0.0004 | 3.5 | 0.0025 | 0.00186 | 0.00042 | 0.00252 | 0.095 | 0.0055 |
| | 2020-10-14 | <i>0.0010</i> | <i>0.0001</i> | 4.0 | 0.0021 | 0.00868 | 0.00024 | 0.00176 | 0.030 | 0.0015 |
| | 2020-11-04 | <i>0.0010</i> | 0.0007 | 3.5 | 0.0014 | 0.00508 | 0.00011 | 0.00138 | 0.015 | 0.0005 |
| | 2020-11-10 | <i>0.0010</i> | 0.0006 | 6.5 | 0.0014 | 0.00370 | 0.00023 | 0.00190 | 0.020 | 0.0025 |
| 2020-12-16 | 0.00004 | 0.0011 | 3.5 | 0.00120 | 0.00140 | 0.00024 | 0.00230 | 0.035 | 0.0100 | |

Table 15: 2019 ECA Surface Water Trigger Values for Surface Water Location SW22A

| Location | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) | Zinc, Total (mg/L) |
|---|---------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|--------------------|
| ECA Surface Water Trigger Value | | 0.020 | 0.005 | 30 | 0.01 | 0.008 | 0.008 | 0.025 | 0.1 | 0.09 |
| SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2 | 2019-01-16 | <i>0.0010</i> | 0.0018 | 7.0 | 0.00147 | 0.00174 | 0.000215 | 0.0022 | 0.145 | 0.022 |
| | 2019-02-13 | <i>No Sample</i> | | | | | | | | |
| | 2019-03-12 | <i>0.0010</i> | 0.0007 | 96.0 | 0.00283 | 0.00302 | 0.001590 | 0.0055 | 0.730 | 0.018 |
| | 2019-04-09 | <i>0.0010</i> | 0.0004 | 22.5 | 0.00063 | 0.00170 | 0.000375 | 0.0013 | 0.065 | 0.005 |
| | 2019-05-15 | <i>0.0010</i> | 0.0006 | 15.5 | 0.00137 | 0.00506 | 0.000340 | 0.0022 | 0.060 | 0.015 |
| | 2019-06-12 | <i>0.0010</i> | 0.0006 | 8.0 | 0.00125 | 0.00172 | 0.000190 | 0.0019 | 0.045 | 0.004 |
| | 2019-07-08 | <i>0.0010</i> | 0.0008 | 4.0 | 0.00181 | 0.00134 | 0.000110 | 0.0016 | 0.050 | 0.002 |
| | 2019-08-13 | <i>0.0010</i> | 0.0012 | 9.0 | 0.0028 | 0.00090 | 0.000150 | 0.0018 | | 0.002 |
| | 2019-09-19 | <i>0.0010</i> | 0.0007 | 3.5 | 0.00145 | 0.00058 | 0.000030 | 0.0017 | 0.055 | 0.001 |
| | 2019-10-08 | <i>0.0010</i> | 0.001 | 2.5 | 0.00092 | 0.00120 | 0.000025 | 0.0015 | 0.020 | 0.003 |
| | 2019-11-14 | <i>0.0005</i> | 0.0004 | 6.5 | 0.00088 | 0.00116 | 0.000110 | 0.0016 | 0.025 | 0.004 |
| 2019-12-12 | <i>0.0005</i> | 0.0007 | 20.5 | 0.00098 | 0.00160 | 0.000345 | 0.0023 | 0.055 | 0.011 | |

Italicized results denote <DL

Table 16: 2019 ECA Surface Water Trigger Values for Surface Water Location SW24

| Location | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) | Zinc, Total (mg/L) |
|--|---------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|--------------------|
| ECA Surface Water Trigger Value | | 0.020 | 0.005 | 30 | 0.01 | 0.008 | 0.008 | 0.025 | 0.1 | 0.09 |
| SW24 - Pinewood River downstream of EDL1 | 2019-01-15 | <i>0.0010</i> | 0.0012 | 12.5 | 0.00132 | 0.00192 | 0.00050 | 0.00286 | 0.080 | 0.0034 |
| | 2019-02-12 | <i>0.0010</i> | 0.0009 | 14.0 | 0.00188 | 0.00262 | 0.00079 | 0.00406 | 0.105 | 0.0054 |
| | 2019-03-12 | <i>0.0010</i> | 0.0007 | 11.0 | 0.00178 | 0.00172 | 0.00072 | 0.00364 | 0.145 | 0.0042 |
| | 2019-04-09 | <i>0.0010</i> | 0.0006 | 27.5 | 0.00069 | 0.00196 | 0.00054 | 0.00178 | 0.090 | 0.0062 |
| | 2019-05-15 | <i>0.0010</i> | 0.0011 | 10.5 | 0.00124 | 0.00228 | 0.00032 | 0.00188 | 0.035 | 0.0106 |
| | 2019-06-11 | <i>0.0010</i> | 0.0014 | 10.5 | 0.00144 | 0.00168 | 0.00030 | 0.00236 | 0.045 | 0.0030 |
| | 2019-07-08 | <i>0.0010</i> | 0.0014 | 17.0 | 0.00412 | 0.00302 | 0.00095 | 0.00448 | 0.115 | 0.0048 |
| | 2019-08-13 | <i>0.0010</i> | 0.0019 | 15.5 | 0.00560 | 0.00260 | 0.00107 | 0.00430 | 0.000 | 0.0050 |
| | 2019-09-18 | <i>0.0010</i> | 0.0011 | 14.0 | 0.00163 | 0.00116 | 0.00033 | 0.00196 | 0.050 | 0.0018 |
| | 2019-10-08 | <i>0.0010</i> | 0.0013 | 7.5 | 0.00091 | 0.00112 | 0.00011 | 0.00150 | 0.025 | 0.0022 |
| | 2019-11-14 | <i>0.0010</i> | 0.0006 | 3.5 | 0.00115 | 0.00240 | 0.00017 | 0.00178 | 0.030 | 0.0046 |
| 2019-12-13 | <i>0.0010</i> | 0.0008 | 10.5 | 0.00096 | 0.00148 | 0.00029 | 0.00210 | 0.035 | 0.0064 | |

Italicized results denote <DL

Table 17: 2018 ECA Surface Water Trigger Values for Surface Water Location SW22A

| Location | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspended Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) | Zinc, Total (mg/L) |
|---|---------------|---------------------------|----------------------|-------------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|--------------------|
| ECA Surface Water Trigger Value | | 0.020 | 0.005 | 30 | 0.01 | 0.008 | 0.008 | 0.025 | 0.1 | 0.09 |
| SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2 | 2018-01-09 | <i>0.0010</i> | | 5.0 | 0.0013 | 0.00176 | 0.000250 | 0.0022 | 0.074 | 0.031 |
| | 2018-02-20 | 0.0130 | | 25.0 | 0.0019 | 0.00092 | 0.000520 | 0.0025 | 0.432 | 0.004 |
| | 2018-03-13 | <i>0.0010</i> | | 14.5 | 0.0016 | 0.00192 | 0.000490 | 0.0026 | 0.230 | 0.026 |
| | 2018-04-10 | <i>0.0010</i> | 0.0001 | 4.5 | 0.0010 | 0.00146 | 0.000200 | 0.0018 | 0.082 | 0.009 |
| | 2018-05-08 | <i>0.0010</i> | 0.0006 | 7.5 | 0.0012 | 0.00130 | 0.000240 | 0.0017 | 0.068 | 0.004 |
| | 2018-06-12 | <i>0.0010</i> | 0.0006 | 4.5 | 0.0021 | 0.00124 | 0.000090 | 0.0017 | 0.116 | 0.003 |
| | 2018-07-17 | <i>0.0010</i> | 0.0009 | 33.5 | 0.0032 | 0.00146 | 0.000380 | 0.0028 | 0.202 | 0.006 |
| | 2018-08-09 | <i>0.0010</i> | 0.0009 | 4.5 | 0.0033 | 0.00118 | 0.000250 | 0.0022 | 0.225 | 0.005 |
| | 2018-09-11 | <i>0.0010</i> | 0.0014 | 14.5 | 0.0031 | 0.00050 | 0.000040 | 0.0016 | 0.335 | 0.001 |
| | 2018-10-16 | <i>0.0010</i> | 0.0001 | 6.0 | 0.0008 | 0.00164 | 0.000080 | 0.0016 | 0.055 | 0.005 |
| | 2018-11-14 | <i>0.0010</i> | 0.0008 | 2.5 | 0.0008 | 0.00128 | 0.000095 | 0.0017 | 0.010 | 0.005 |
| 2018-12-04 | <i>0.0010</i> | 0.0009 | 5.5 | 0.0012 | 0.00140 | 0.000150 | 0.0021 | 0.055 | 0.007 | |

Italicized results denote <DL

Table 18: 2018 ECA Surface Water Trigger Values for Surface Water Location SW24

| Location | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspended Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) | Zinc, Total (mg/L) |
|---|---------------|---------------------------|----------------------|-------------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|--------------------|
| ECA Surface Water Trigger Value | | 0.020 | 0.005 | 30 | 0.01 | 0.008 | 0.008 | 0.025 | 0.1 | 0.09 |
| SW24 -Pinewood River downstream of EDL1 | 2018-01-09 | 0.0020 | | 19.0 | 0.0012 | 0.00238 | 0.00075 | 0.00358 | 0.082 | 0.0076 |
| | 2018-02-20 | 0.0020 | | 25.0 | 0.0014 | 0.00228 | 0.00089 | 0.00354 | 0.128 | 0.0060 |
| | 2018-03-13 | <i>0.0010</i> | | 20.0 | 0.0015 | 0.00244 | 0.00110 | 0.00404 | 0.156 | 0.0068 |
| | 2018-04-10 | <i>0.0010</i> | 0.0002 | 5.0 | 0.0009 | 0.00148 | 0.00030 | 0.00184 | 0.050 | 0.0030 |
| | 2018-05-08 | <i>0.0010</i> | <i>0.0005</i> | 17.5 | 0.0011 | 0.00210 | 0.00053 | 0.00238 | 0.050 | 0.0048 |
| | 2018-06-12 | <i>0.0010</i> | <i>0.0001</i> | 27.0 | 0.0022 | 0.00336 | 0.00096 | 0.00364 | 0.086 | 0.0082 |
| | 2018-07-17 | <i>0.0010</i> | 0.0010 | 118.0 | 0.0059 | 0.00624 | 0.00258 | 0.00854 | 0.222 | 0.0206 |
| | 2018-08-07 | <i>0.0010</i> | 0.0014 | 43.5 | 0.0052 | 0.00334 | 0.00149 | 0.00452 | 0.165 | 0.0098 |
| | 2018-09-11 | <i>0.0010</i> | 0.0009 | 48.5 | 0.0065 | 0.00342 | 0.00142 | 0.00508 | 0.220 | 0.0060 |
| | 2018-10-16 | <i>0.0010</i> | 0.0004 | 8.5 | 0.0008 | 0.00140 | 0.00022 | 0.00168 | 0.045 | 0.0024 |
| | 2018-11-13 | <i>0.0010</i> | 0.0008 | 6.5 | 0.0009 | 0.00152 | 0.00022 | 0.00180 | 0.015 | 0.0032 |
| 2018-12-04 | <i>0.0010</i> | 0.0007 | 6.5 | 0.0011 | 0.00188 | 0.00034 | 0.00248 | 0.050 | 0.0040 | |

Italicized results denote <DL

Table 19: 2017 ECA Surface Water Trigger Values for Surface Water Location SW22A

| Location | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) | Zinc, Total (mg/L) |
|---|---------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|--------------------|
| ECA Surface Water Trigger Value | | 0.020 | 0.005 | 30 | 0.01 | 0.008 | 0.008 | 0.025 | 0.1 | 0.09 |
| SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2 | 2017-01-25 | <i>0.0005</i> | | 5.0 | 0.0010 | 0.00090 | 0.000200 | 0.0016 | | 0.008 |
| | 2017-02-15 | <i>0.0010</i> | | 6.0 | 0.0011 | 0.00090 | 0.000100 | 0.0024 | | 0.010 |
| | 2017-03-29 | <i>0.0010</i> | | 9.0 | 0.0005 | 0.00130 | 0.000200 | 0.0011 | | 0.004 |
| | 2017-04-26 | <i>0.0010</i> | | 3.5 | 0.0007 | 0.00090 | 0.000060 | 0.0012 | | 0.002 |
| | 2017-05-25 | <i>0.0010</i> | | 2.5 | 0.0009 | 0.00085 | 0.000040 | 0.0016 | | 0.002 |
| | 2017-06-21 | <i>0.0010</i> | | 5.0 | 0.0014 | 0.00070 | 0.000080 | 0.0015 | | 0.004 |
| | 2017-07-18 | | | 1.5 | 0.0020 | 0.00030 | 0.000070 | 0.0014 | | 0.003 |
| | 2017-08-18 | | | 5.5 | 0.0030 | 0.00050 | 0.000110 | 0.0021 | | 0.004 |
| | 2017-09-26 | <i>0.0010</i> | | 2.0 | 0.0011 | 0.00100 | 0.000005 | 0.0013 | | 0.003 |
| | 2017-10-30 | <i>0.0010</i> | | 2.0 | 0.0008 | 0.00100 | 0.000040 | 0.0012 | | 0.003 |
| 2017-11-20 | <i>0.0010</i> | | 2.5 | 0.0008 | 0.00100 | 0.000080 | 0.0015 | | 0.015 | |
| 2017-12-14 | <i>0.0010</i> | | 2.5 | 0.0008 | 0.00120 | 0.000100 | 0.0017 | | 0.012 | |

Italicized results denote <DL

Table 20: 2016 ECA Surface Water Trigger Values for Surface Water Location SW22A

| Location | Sample Date | Ammonia, Unionized (mg/L) | Cyanide, Free (mg/L) | Total Suspend Solids (mg/L) | Arsenic, Total (mg/L) | Copper, Total (mg/L) | Lead, Total (mg/L) | Nickel, Total (mg/L) | Phosphorous, Total (mg/L) | Zinc, Total (mg/L) |
|---|------------------|---------------------------|----------------------|-----------------------------|-----------------------|----------------------|--------------------|----------------------|---------------------------|--------------------|
| ECA Benchmark | | 0.020 | 0.005 | 30 | 0.01 | 0.008 | 0.008 | 0.025 | 0.1 | 0.09 |
| SW22A - Pinewood River downstream of the confluence with Loslo Creek/EDL2 | 2016-01-27 | <i>0.0010</i> | | 3.5 | 0.001 | 0.00090 | 0.00020 | 0.00160 | | 0.00500 |
| | 2016-02-29 | <i>0.0010</i> | | 3.5 | 0.0011 | 0.00090 | 0.00021 | 0.00180 | | 0.00500 |
| | 2016-03-23 | <i>0.0005</i> | | 7.5 | 0.0006 | 0.00150 | 0.00026 | 0.00140 | | 0.00350 |
| | 2016-04-18 | <i>0.0010</i> | | 4.5 | 0.0006 | 0.00110 | 0.00011 | 0.00120 | | 0.00150 |
| | 2016-05-18 | <i>0.0010</i> | | 3.5 | 0.001 | 0.00090 | 0.00003 | 0.00150 | | 0.00100 |
| | 2016-06-22 | <i>0.0010</i> | | 1.0 | | | | | | |
| | 2016-07-15 | <i>0.0010</i> | | 0.5 | 0.0017 | 0.00070 | 0.00005 | 0.00160 | | 0.00150 |
| | 2016-08-16 | <i>0.0010</i> | | 3.0 | 0.0021 | 0.00040 | 0.00001 | 0.00150 | | 0.00050 |
| | 2016-09-21 | <i>0.0010</i> | | 4.0 | 0.0011 | 0.00040 | 0.00006 | 0.00140 | | 0.00050 |
| | 2016-10-22 | <i>0.0010</i> | | 3.5 | 0.0007 | 0.00070 | 0.00006 | 0.00110 | | 0.00200 |
| | 2016-11-16 | <i>0.0010</i> | | 6.0 | 0.0008 | 0.00060 | 0.00012 | 0.00130 | | 0.00350 |
| 2016-12-21 | <i>No Sample</i> | | | | | | | | | |

Italicized results denote <DL

Table 21: Average 2022 Area Creek and Rainy River Water Quality for Selected Parameters

| Location | SW28A | SW02 | SW25 | SW26 | SW27 | SW29 | SW16 | SW17 | |
|-------------------------------|--|--------------------------|--|--|---|---|---|---|----------------------------|
| Description | Clark Creek downstream of Clark Creek/Teepie Diversion | West Creek near Roen Pit | West Creek Diversion near Sediment Pond #1 | West Creek Diversion near Sediment Pond #2 | Loslo Creek downstream of West Creek Diversion confluence | Tait Creek upstream of EDL1 pipe crossing | Rainy River upstream of Pinewood confluence | Rainy River downstream of Pinewood confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.039 | 0.106 | 0.054 | 0.039 | 0.022 | 0.005 | 0.012 | 0.013 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0133 | 0.0091 | 0.0085 | 0.0078 | 0.0077 | 0.0100 | 0.0091 | 0.0102 | 0.02*^ |
| Cyanide, Free (mg/L) | 0.0008 | 0.0008 | 0.0012 | 0.0010 | 0.0009 | 0.0020 | 0.0013 | 0.0015 | |
| Cyanide, Total (mg/L) | 0.0007 | 0.0010 | 0.0009 | 0.0009 | 0.0008 | 0.0008 | 0.0013 | 0.0010 | 0.005*^ |
| Field pH (mg/L) | 7.61 | 6.90 | 7.32 | 7.31 | 7.47 | 7.10 | 6.95 | 6.79 | 6.5-8.5^ |
| Total Suspended Solids (mg/L) | 7.9 | 5.3 | 15.5 | 3.5 | 5.1 | 1.0 | 4.7 | 4.9 | |
| Aluminium, Total (mg/L) | 0.186 | 0.101 | 0.443 | 0.226 | 0.228 | 0.100 | 0.118 | 0.166 | 0.075^ |
| Arsenic, Total (mg/L) | 0.0012 | 0.0010 | 0.0011 | 0.0013 | 0.0011 | 0.0009 | 0.0005 | 0.0006 | 0.05* |
| Cadmium, Total (mg/L) | 0.000007 | 0.000016 | 0.000017 | 0.000012 | 0.000010 | 0.000016 | 0.000007 | 0.000010 | 0.0001-0.0005^ |
| Chromium, Total (mg/L) | 0.0006 | 0.0011 | 0.0015 | 0.0007 | 0.0006 | 0.0001 | 0.0005 | 0.0006 | 0.001*^ |
| Cobalt, Total (mg/L) | 0.0002 | 0.0004 | 0.0004 | 0.0002 | 0.0002 | 0.0002 | 0.0010 | 0.0002 | 0.0009^ |
| Copper, Total (mg/L) | 0.00081 | 0.00129 | 0.00238 | 0.00210 | 0.00152 | 0.01820 | 0.00120 | 0.00115 | 0.002-0.004* |
| Iron, Total (mg/L) | 0.435 | 0.652 | 0.784 | 0.485 | 0.426 | 0.224 | 0.186 | 0.291 | 0.3*^ |
| Lead, Total (mg/L) | 0.000157 | 0.000240 | 0.000399 | 0.000163 | 0.000162 | 0.000040 | 0.000107 | 0.000138 | 0.001-0.005*^ |
| Mercury, Total (mg/L) | 0.000005 | 0.000010 | 0.000010 | 0.000011 | 0.000008 | 0.000005 | 0.000013 | 0.000012 | 0.0002^ |
| Nickel, Total (mg/L) | 0.00126 | 0.00086 | 0.00197 | 0.00157 | 0.00147 | 0.00340 | 0.00072 | 0.00091 | 0.025*^ |
| Phosphorus, Total (mg/L) | 0.017 | 0.021 | 0.036 | 0.019 | 0.024 | 0.016 | 0.025 | 0.040 | |
| Zinc, Total (mg/L) | 0.00214 | 0.00629 | 0.01489 | 0.02314 | 0.00778 | 0.00220 | 0.00199 | 0.00233 | 0.02^ |

* CEQG

^ PWQO

Exceedances in bold

Table 22: Average 2021 Area Creek and Rainy River Water Quality for Selected Parameters

| Location | SW28A | SW02 | SW25 | SW26 | SW27 | SW29 | SW16 | SW17 | |
|-------------------------------|--|--------------------------|--|--|---|---|---|---|----------------------------|
| Description | Clark Creek downstream of Clark Creek/Teepie Diversion | West Creek near Roen Pit | West Creek Diversion near Sediment Pond #1 | West Creek Diversion near Sediment Pond #2 | Loslo Creek downstream of West Creek Diversion confluence | Tait Creek upstream of EDL1 pipe crossing | Rainy River upstream of Pinewood confluence | Rainy River downstream of Pinewood confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.031 | 0.035 | 0.015 | 0.073 | 0.015 | 0.016 | 0.016 | 0.011 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0041 | 0.0057 | 0.0053 | 0.0061 | 0.0063 | 0.0068 | 0.0064 | 0.0073 | 0.02*^ |
| Cyanide, Free (mg/L) | 0.0006 | 0.0006 | 0.0007 | 0.0006 | 0.0009 | 0.0011 | 0.0008 | 0.0016 | |
| Cyanide, Total (mg/L) | 0.0007 | 0.0010 | 0.0019 | 0.0020 | 0.0010 | 0.0008 | 0.0007 | 0.0007 | 0.005*^ |
| Field pH (mg/L) | 7.52 | 6.87 | 7.41 | 7.38 | 7.20 | 6.79 | 7.36 | 7.63 | 6.5-8.5^ |
| Total Suspended Solids (mg/L) | 10.8 | 3.9 | 6.3 | 3.5 | 3.6 | 5.5 | 6.1 | 15.1 | |
| Aluminium, Total (mg/L) | 0.137 | 0.065 | 0.255 | 0.111 | 0.102 | 0.147 | 0.211 | 0.280 | 0.075^ |
| Arsenic, Total (mg/L) | 0.0010 | 0.0007 | 0.0011 | 0.0013 | 0.0012 | 0.0011 | 0.0005 | 0.0005 | 0.05* |
| Cadmium, Total (mg/L) | 0.000002 | 0.000005 | 0.000009 | 0.000007 | 0.000008 | 0.000007 | 0.000204 | 0.000007 | 0.0001-0.0005^ |
| Chromium, Total (mg/L) | 0.0002 | 0.0002 | 0.0006 | 0.0001 | 0.0003 | 0.0004 | 0.0005 | 0.0007 | 0.001*^ |
| Cobalt, Total (mg/L) | 0.0001 | 0.0003 | 0.0004 | 0.0004 | 0.0004 | 0.0008 | 0.0002 | 0.0002 | 0.0009^ |
| Copper, Total (mg/L) | 0.00066 | 0.00045 | 0.00253 | 0.00125 | 0.00134 | 0.00047 | 0.00120 | 0.00125 | 0.002-0.004* |
| Iron, Total (mg/L) | 0.246 | 0.543 | 0.486 | 0.425 | 0.549 | 1.539 | 0.307 | 0.436 | 0.3*^ |
| Lead, Total (mg/L) | 0.000107 | 0.000101 | 0.000371 | 0.000085 | 0.000080 | 0.000133 | 0.000168 | 0.000238 | 0.001-0.005*^ |
| Mercury, Total (mg/L) | 0.000030 | 0.000022 | 0.000024 | 0.000025 | 0.000027 | 0.000019 | 0.000028 | 0.000023 | 0.0002^ |
| Nickel, Total (mg/L) | 0.00095 | 0.00074 | 0.00157 | 0.00147 | 0.00139 | 0.00108 | 0.00094 | 0.00098 | 0.025*^ |
| Phosphorus, Total (mg/L) | 0.032 | 0.036 | 0.054 | 0.033 | 0.059 | 0.096 | 0.022 | 0.026 | |
| Zinc, Total (mg/L) | 0.00138 | 0.00258 | 0.01601 | 0.01184 | 0.00031 | 0.00263 | 0.00345 | 0.00380 | 0.02^ |

* CEQG

^ PWQO

Exceedances in bold

Table 23: Average 2020 Area Creek and Rainy River Water Quality for Selected Parameters

| Location | SW28A | SW02 | SW25 | SW26 | SW27 | SW29 | SW16 | SW17 | |
|-------------------------------|--|--------------------------|--|--|---|---|---|---|----------------------------|
| Description | Clark Creek downstream of Clark Creek/Teepie Diversion | West Creek near Roen Pit | West Creek Diversion near Sediment Pond #1 | West Creek Diversion near Sediment Pond #2 | Loslo Creek downstream of West Creek Diversion confluence | Tait Creek upstream of EDL1 pipe crossing | Rainy River upstream of Pinewood confluence | Rainy River downstream of Pinewood confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.042 | 0.101 | 0.029 | 0.033 | 0.039 | 0.203 | 0.020 | 0.016 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0009 | 0.0009 | 0.0008 | 0.0009 | 0.0009 | 0.0008 | 0.0009 | 0.0015 | 0.02*^ |
| Cyanide, Free (mg/L) | 0.0008 | 0.0009 | 0.0006 | 0.0006 | 0.0008 | 0.0008 | 0.0006 | 0.0004 | |
| Cyanide, Total (mg/L) | 0.0007 | 0.0006 | 0.0009 | 0.0007 | 0.0006 | 0.0011 | 0.0003 | 0.0004 | 0.005*^ |
| Field pH (mg/L) | 7.67 | 6.95 | 7.55 | 7.66 | 7.51 | 6.66 | 7.33 | 7.44 | 6.5-8.5^ |
| Total Suspended Solids (mg/L) | 7.8 | 1.3 | 5.0 | 5.3 | 7.0 | 4.2 | 9.3 | 5.6 | |
| Aluminium, Total (mg/L) | 0.221 | 0.073 | 0.230 | 0.205 | 0.261 | 0.168 | 0.304 | 0.168 | 0.075^ |
| Arsenic, Total (mg/L) | 0.0011 | 0.0006 | 0.0009 | 0.0012 | 0.0012 | 0.0012 | 0.0006 | 0.0006 | 0.05* |
| Cadmium, Total (mg/L) | 0.000013 | 0.000007 | 0.000009 | 0.000007 | 0.000013 | 0.000010 | 0.000018 | 0.000013 | 0.0001-0.0005^ |
| Chromium, Total (mg/L) | 0.0005 | 0.0003 | 0.0005 | 0.0005 | 0.0006 | 0.0005 | 0.0008 | 0.0006 | 0.001*^ |
| Cobalt, Total (mg/L) | 0.0004 | 0.0002 | 0.0002 | 0.0003 | 0.0004 | 0.0011 | 0.0002 | 0.0001 | 0.0009^ |
| Copper, Total (mg/L) | 0.00107 | 0.00038 | 0.00235 | 0.00192 | 0.00174 | 0.00058 | 0.00150 | 0.00114 | 0.002-0.004* |
| Iron, Total (mg/L) | 0.589 | 0.378 | 0.469 | 0.446 | 0.485 | 1.246 | 0.437 | 0.318 | 0.3*^ |
| Lead, Total (mg/L) | 0.000155 | 0.000091 | 0.000165 | 0.000155 | 0.000175 | 0.000220 | 0.000251 | 0.000163 | 0.001-0.005*^ |
| Mercury, Total (mg/L) | 0.000005 | 0.000005 | 0.000005 | 0.000005 | 0.000005 | 0.000006 | 0.000005 | 0.000005 | 0.0002^ |
| Nickel, Total (mg/L) | 0.00128 | 0.00050 | 0.00152 | 0.00149 | 0.00156 | 0.00153 | 0.00114 | 0.00094 | 0.025*^ |
| Phosphorus, Total (mg/L) | 0.017 | 0.007 | 0.030 | 0.023 | 0.036 | 0.055 | 0.018 | 0.014 | |
| Zinc, Total (mg/L) | 0.00212 | 0.00178 | 0.01141 | 0.01533 | 0.01167 | 0.00588 | 0.00429 | 0.00237 | 0.02^ |

* CEQG

^ PWQO

Exceedances in bold

Table 24: Average 2019 Area Creek and Rainy River Water Quality for Selected Parameters

| Location | SW28A | SW02 | SW25 | SW26 | SW27 | SW29 | SW16 | SW17 | |
|-------------------------------|--|--------------------------|--|--|---|---|---|---|----------------------------|
| Description | Clark Creek downstream of Clark Creek/Teepie Diversion | West Creek near Roen Pit | West Creek Diversion near Sediment Pond #1 | West Creek Diversion near Sediment Pond #2 | Loslo Creek downstream of West Creek Diversion confluence | Tait Creek upstream of EDL1 pipe crossing | Rainy River upstream of Pinewood confluence | Rainy River downstream of Pinewood confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.027 | 0.089 | 0.165 | 0.097 | 0.024 | 0.193 | 0.015 | 0.025 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0009 | 0.0009 | 0.0011 | 0.0013 | 0.0009 | 0.0016 | 0.0010 | 0.0009 | 0.02*^ |
| Cyanide, Free (mg/L) | 0.0006 | 0.0008 | 0.0008 | 0.0008 | 0.0009 | 0.0011 | 0.0004 | 0.0005 | |
| Cyanide, Total (mg/L) | 0.0006 | 0.0009 | 0.0008 | 0.0009 | 0.0009 | 0.0012 | 0.0004 | 0.0005 | 0.005*^ |
| Field pH (mg/L) | 7.57 | 7.20 | 7.34 | 7.77 | 7.45 | 7.14 | 7.79 | 7.55 | 6.5-8.5^ |
| Total Suspended Solids (mg/L) | 10.8 | 1.7 | 8.0 | 15.6 | 4.8 | 6.4 | 17.7 | 5.9 | |
| Aluminium, Total (mg/L) | 0.238 | 0.145 | 0.240 | 0.307 | 0.207 | 0.199 | 0.349 | 0.152 | 0.075^ |
| Arsenic, Total (mg/L) | 0.0010 | 0.0007 | 0.0014 | 0.0015 | 0.0011 | 0.0015 | 0.0006 | 0.0005 | 0.05* |
| Cadmium, Total (mg/L) | 0.000011 | 0.000006 | 0.000014 | 0.000013 | 0.000009 | 0.000011 | 0.000014 | 0.000007 | 0.0001-0.0005^ |
| Chromium, Total (mg/L) | 0.0008 | 0.0007 | 0.0009 | 0.0009 | 0.0008 | 0.0007 | 0.0011 | 0.0006 | 0.001*^ |
| Cobalt, Total (mg/L) | 0.0003 | 0.0003 | 0.0008 | 0.0005 | 0.0003 | 0.0009 | 0.0003 | 0.0001 | 0.0009^ |
| Copper, Total (mg/L) | 0.00126 | 0.00096 | 0.00161 | 0.00186 | 0.00153 | 0.00088 | 0.00146 | 0.00107 | 0.002-0.004* |
| Iron, Total (mg/L) | 0.494 | 0.499 | 0.736 | 0.602 | 0.467 | 1.753 | 0.562 | 0.290 | 0.3*^ |
| Lead, Total (mg/L) | 0.000195 | 0.000124 | 0.000208 | 0.000217 | 0.000148 | 0.000209 | 0.000335 | 0.000138 | 0.001-0.005*^ |
| Mercury, Total (mg/L) | 0.000004 | 0.000004 | 0.000004 | 0.000003 | 0.000004 | 0.000006 | 0.000004 | 0.000004 | 0.0002^ |
| Nickel, Total (mg/L) | 0.00141 | 0.00068 | 0.00188 | 0.00183 | 0.00157 | 0.00161 | 0.00125 | 0.00085 | 0.025*^ |
| Phosphorus, Total (mg/L) | 0.023 | 0.009 | 0.035 | 0.025 | 0.021 | 0.102 | 0.029 | 0.015 | |
| Zinc, Total (mg/L) | 0.00280 | 0.00401 | 0.00853 | 0.02273 | 0.01337 | 0.00361 | 0.00656 | 0.00360 | 0.02^ |

* CEQG

Exceedances in bold

^ PWQO

Table 25: Average 2018 Area Creek and Rainy River Water Quality for Selected Parameters

| Location | SW28A | SW02 | SW25 | SW26 | SW27 | SW29 | SW16 | SW17 | |
|-------------------------------|--|--------------------------|--|--|---|---|---|---|----------------------------|
| Description | Clark Creek downstream of Clark Creek/Teeple Diversion | West Creek near Roen Pit | West Creek Diversion near Sediment Pond #1 | West Creek Diversion near Sediment Pond #2 | Loslo Creek downstream of West Creek Diversion confluence | Tait Creek upstream of EDL1 pipe crossing | Rainy River upstream of Pinewood confluence | Rainy River downstream of Pinewood confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.064 | 0.209 | 0.049 | 0.065 | 0.075 | 1.658 | 0.050 | 0.041 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0010 | 0.0010 | 0.0010 | 0.0021 | 0.0015 | 0.0115 | 0.0010 | 0.0013 | 0.02**^ |
| Cyanide, Free (mg/L) | 0.0004 | 0.0006 | 0.0006 | 0.0005 | 0.0006 | 0.0007 | 0.0002 | 0.0004 | |
| Cyanide, Total (mg/L) | 0.0006 | 0.0008 | 0.0007 | 0.0010 | 0.0007 | 0.0006 | 0.0003 | 0.0003 | 0.005**^ |
| Field pH (mg/L) | 7.84 | 7.60 | 7.70 | 7.88 | 7.99 | 7.55 | 8.03 | 7.90 | 6.5-8.5^ |
| Total Suspended Solids (mg/L) | 6.7 | 6.5 | 5.3 | 8.9 | 7.1 | 24.0 | 6.6 | 9.8 | |
| Aluminium, Total (mg/L) | 0.158 | 0.106 | 0.161 | 0.464 | 0.349 | 0.477 | 0.183 | 0.310 | 0.075^ |
| Arsenic, Total (mg/L) | 0.0011 | 0.0008 | 0.0014 | 0.0017 | 0.0012 | 0.0017 | 0.0005 | 0.0008 | 0.05* |
| Cadmium, Total (mg/L) | 0.000008 | 0.000013 | 0.000008 | 0.000014 | 0.000014 | 0.000020 | 0.000009 | 0.000010 | 0.0001-0.0005^ |
| Chromium, Total (mg/L) | 0.0004 | 0.0004 | 0.0005 | 0.0012 | 0.0008 | 0.0010 | 0.0006 | 0.0008 | 0.001**^ |
| Cobalt, Total (mg/L) | 0.0002 | 0.0005 | 0.0003 | 0.0006 | 0.0005 | 0.0024 | 0.0001 | 0.0002 | 0.0009^ |
| Copper, Total (mg/L) | 0.00107 | 0.00135 | 0.00157 | 0.00365 | 0.00206 | 0.00088 | 0.00129 | 0.00145 | 0.002-0.004* |
| Iron, Total (mg/L) | 0.320 | 0.755 | 0.403 | 0.694 | 0.631 | 5.335 | 0.297 | 0.492 | 0.3**^ |
| Lead, Total (mg/L) | 0.000110 | 0.000607 | 0.000182 | 0.000472 | 0.000234 | 0.000530 | 0.000165 | 0.000262 | 0.001-0.005**^ |
| Mercury, Total (mg/L) | 0.000004 | 0.000004 | 0.000002 | 0.000004 | 0.000004 | 0.000007 | 0.000003 | 0.000005 | 0.0002^ |
| Nickel, Total (mg/L) | 0.00134 | 0.00093 | 0.00177 | 0.00221 | 0.00185 | 0.00225 | 0.00093 | 0.00126 | 0.025**^ |
| Phosphorus, Total (mg/L) | 0.019 | 0.021 | 0.039 | 0.040 | 0.043 | 0.394 | 0.013 | 0.027 | |
| Zinc, Total (mg/L) | 0.00217 | 0.06723 | 0.00618 | 0.06411 | 0.02486 | 0.00525 | 0.00228 | 0.00288 | 0.02^ |

* CEQG

^ PWQO

Exceedances in bold

Table 26: Average 2017 Area Creek and Rainy River Water Quality for Selected Parameters

| Location | SW28A | SW02 | SW25 | SW26 | SW27 | SW29 | SW16 | SW17 | |
|-------------------------------|---|--------------------------|--|--|---|---|---|---|----------------------------|
| Description | Clark Creek downstream of Clark Creek/Teeples Diversion | West Creek near Roen Pit | West Creek Diversion near Sediment Pond #1 | West Creek Diversion near Sediment Pond #2 | Loslo Creek downstream of West Creek Diversion confluence | Tait Creek upstream of EDL1 pipe crossing | Rainy River upstream of Pinewood confluence | Rainy River downstream of Pinewood confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.036 | 0.042 | 0.022 | 0.039 | 0.097 | | 0.030 | 0.023 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0011 | 0.0010 | 0.0014 | 0.0012 | 0.001 | | 0.0010 | 0.0009 | 0.02*^ |
| Cyanide, Free (mg/L) | | | | | | | | | |
| Cyanide, Total (mg/L) | 0.0009 | 0.0009 | 0.0008 | 0.0007 | 0.0019 | | 0.0008 | 0.0008 | 0.005*^ |
| Field pH (mg/L) | 7.72 | 7.30 | 7.62 | 7.46 | 7.55 | | 7.74 | 7.71 | 6.5-8.5^ |
| Total Suspended Solids (mg/L) | 6.4 | 2.2 | 5.6 | 11.4 | 6.6 | | 6.0 | 6.0 | |
| Aluminium, Total (mg/L) | 0.227 | 0.078 | 0.429 | 0.373 | 0.183 | | 0.172 | 0.185 | 0.075^ |
| Arsenic, Total (mg/L) | 0.0012 | 0.0006 | 0.0012 | 0.0016 | 0.0010 | | 0.0035 | 0.0013 | 0.05* |
| Cadmium, Total (mg/L) | 0.000012 | 0.000005 | 0.000011 | 0.000017 | 0.000010 | | 0.000012 | 0.000008 | 0.0001-0.0005^ |
| Chromium, Total (mg/L) | 0.0005 | 0.0003 | 0.0010 | 0.0010 | 0.0006 | | 0.0009 | 0.0005 | 0.001*^ |
| Cobalt, Total (mg/L) | 0.0002 | 0.0001 | 0.0003 | 0.0005 | 0.0005 | | 0.0001 | 0.0001 | 0.0009^ |
| Copper, Total (mg/L) | 0.00134 | 0.00045 | 0.00250 | 0.00324 | 0.00150 | | 0.00320 | 0.00156 | 0.002-0.004* |
| Iron, Total (mg/L) | 0.310 | 0.247 | 0.498 | 0.648 | 0.614 | | 0.253 | 0.298 | 0.3*^ |
| Lead, Total (mg/L) | 0.000125 | 0.000058 | 0.000216 | 0.000194 | 0.000123 | | 0.000178 | 0.000163 | 0.001-0.005*^ |
| Mercury, Total (mg/L) | 0.000005 | 0.000003 | 0.000002 | 0.000003 | 0.000003 | | 0.000003 | 0.000003 | 0.0002^ |
| Nickel, Total (mg/L) | 0.00131 | 0.00056 | 0.00182 | 0.00244 | 0.00146 | | 0.00090 | 0.00093 | 0.025*^ |
| Phosphorus, Total (mg/L) | 0.031 | 0.008 | | | 0.021 | | 0.010 | 0.019 | |
| Zinc, Total (mg/L) | 0.00394 | 0.00292 | 0.01620 | 0.27740 | 0.00929 | | 0.00467 | 0.00278 | 0.02^ |

* CEQG

^ PWQO

Exceedances in bold

Table 27: Average 2016 Area Creek and Rainy River Water Quality for Selected Parameters

| Location | SW28A | SW02 | SW25 | SW26 | SW27 | SW29 | SW16 | SW17 | |
|-------------------------------|--|--------------------------|--|--|---|---|---|---|----------------------------|
| Description | Clark Creek downstream of Clark Creek/Teepie Diversion | West Creek near Roen Pit | West Creek Diversion near Sediment Pond #1 | West Creek Diversion near Sediment Pond #2 | Loslo Creek downstream of West Creek Diversion confluence | Tait Creek upstream of EDL1 pipe crossing | Rainy River upstream of Pinewood confluence | Rainy River downstream of Pinewood confluence | Water Quality Target/Limit |
| Ammonia, Total (mg/L) | 0.040 | 0.049 | | | 0.066 | | 0.015 | 0.018 | 0.35-0.73* |
| Ammonia, Unionized (mg/L) | 0.0010 | 0.0010 | | | 0.0010 | | 0.0010 | 0.0010 | 0.02*^ |
| Cyanide, Free (mg/L) | | | | | | | | | |
| Cyanide, Total (mg/L) | | | | | | | | | 0.005*^ |
| Field pH (mg/L) | 7.58 | 6.89 | | | 7.21 | | 7.50 | 7.52 | 6.5-8.5^ |
| Total Suspended Solids (mg/L) | 4.4 | 3.2 | | | 3.9 | | 6.6 | 6.0 | |
| Aluminium, Total (mg/L) | 0.117 | 0.093 | | | 0.090 | | 0.200 | 0.233 | 0.075^ |
| Arsenic, Total (mg/L) | 0.0013 | 0.0006 | | | 0.0011 | | 0.0005 | 0.0006 | 0.05* |
| Cadmium, Total (mg/L) | 0.000008 | 0.000006 | | | 0.000008 | | 0.000008 | 0.000010 | 0.0001-0.0005^ |
| Chromium, Total (mg/L) | 0.0004 | 0.0003 | | | 0.0003 | | 0.0006 | 0.0006 | 0.001*^ |
| Cobalt, Total (mg/L) | 0.0002 | 0.0002 | | | 0.0004 | | 0.0001 | 0.0002 | 0.0009^ |
| Copper, Total (mg/L) | 0.00084 | 0.00048 | | | 0.00065 | | 0.00120 | 0.00122 | 0.002-0.004* |
| Iron, Total (mg/L) | 0.370 | 0.412 | | | 0.620 | | 0.313 | 0.400 | 0.3*^ |
| Lead, Total (mg/L) | 0.000092 | 0.000095 | | | 0.000077 | | 0.000160 | 0.000173 | 0.001-0.005*^ |
| Mercury, Total (mg/L) | 0.000003 | 0.000002 | | | 0.000003 | | 0.000002 | 0.000003 | 0.0002^ |
| Nickel, Total (mg/L) | 0.00142 | 0.00059 | | | 0.00139 | | 0.00094 | 0.00106 | 0.025*^ |
| Phosphorus, Total (mg/L) | | | | | | | | | |
| Zinc, Total (mg/L) | 0.00180 | 0.00245 | | | 0.00345 | | 0.00346 | 0.00286 | 0.02^ |

* CEQG

Exceedances in bold

^ PWQO

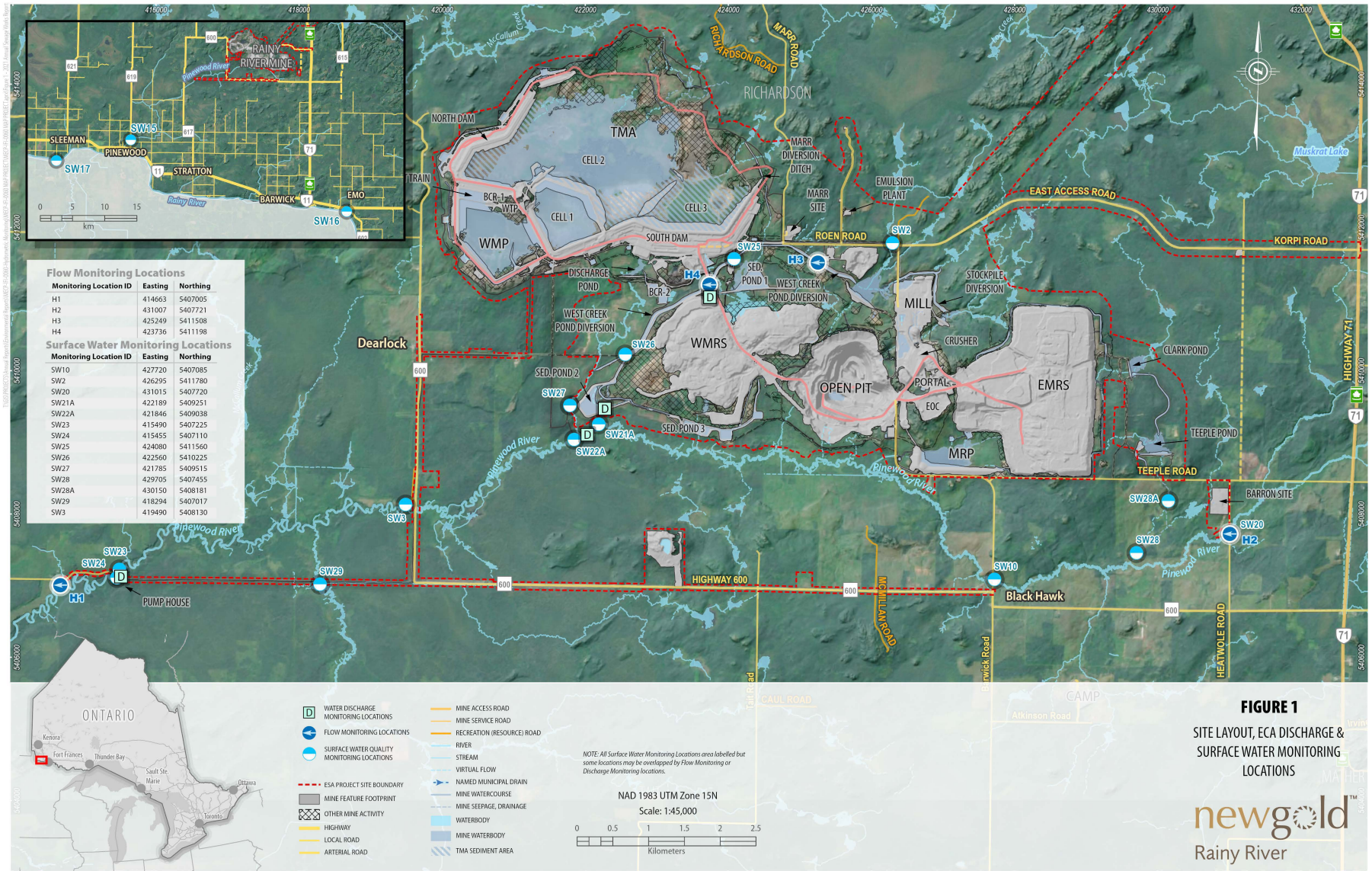


Figure 2a - Rainy River Mine, Field pH Levels in Pinewood River 2015-2022

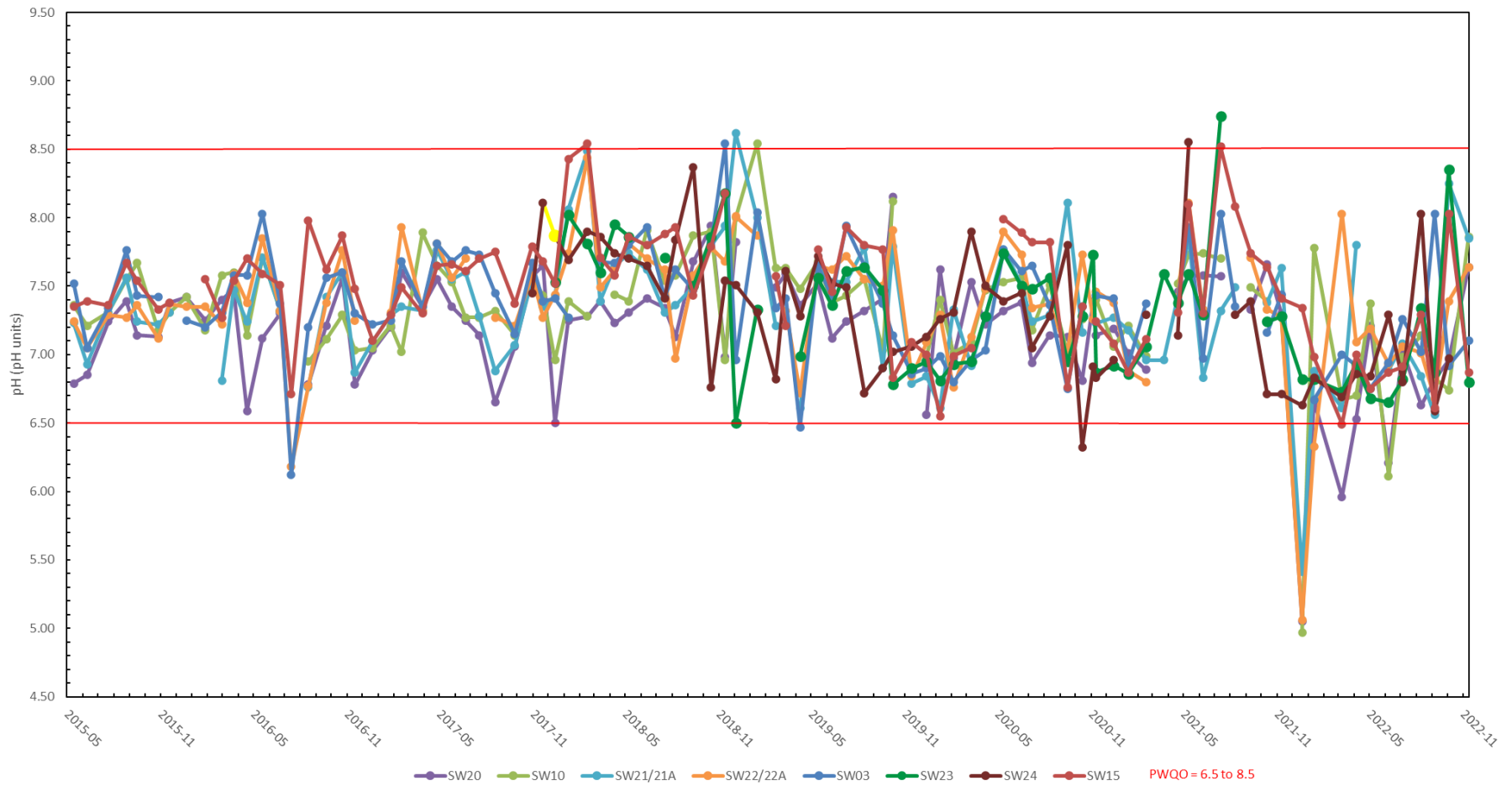


Figure 2b - Rainy River Mine, Field pH Levels in Pinewood River 2022

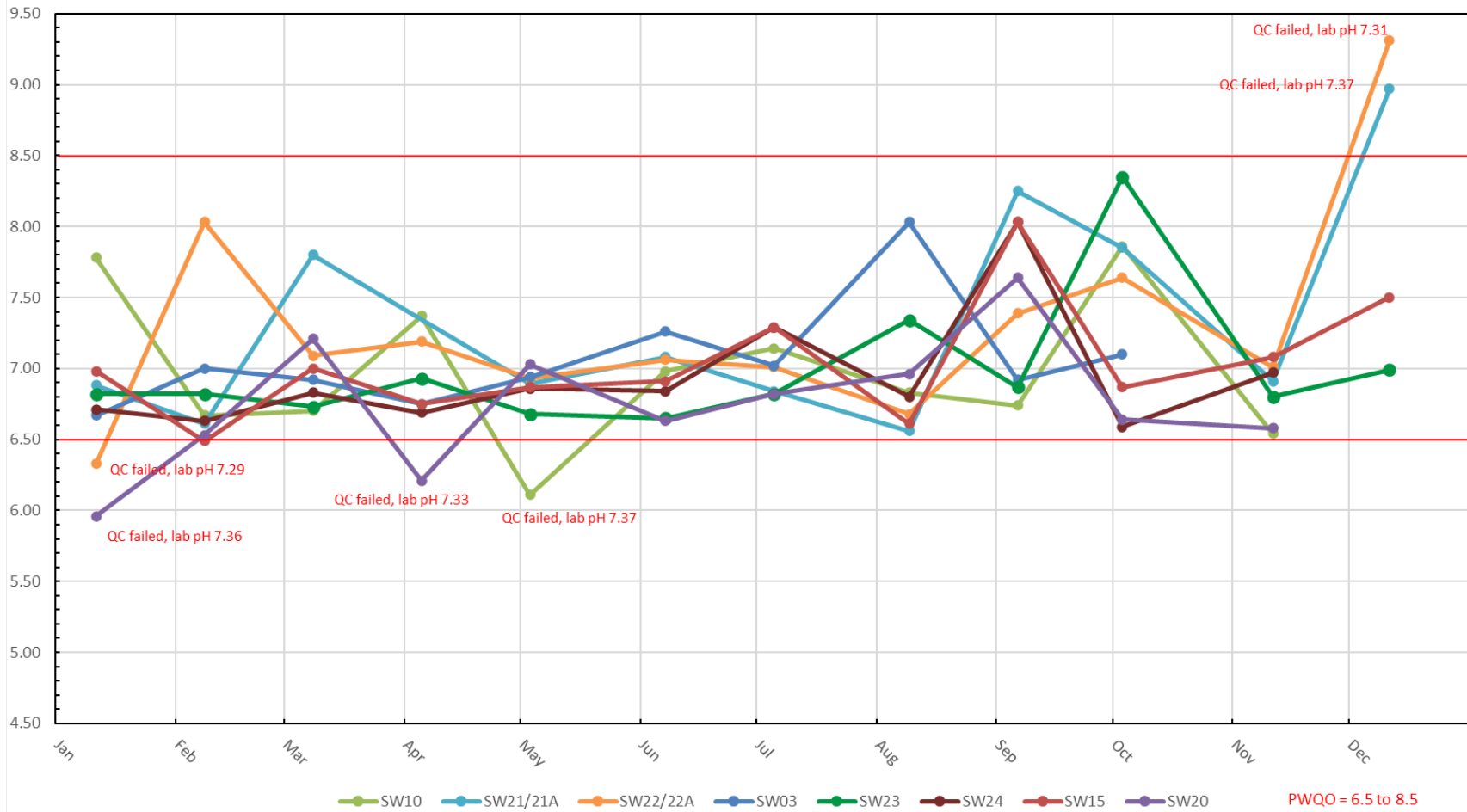


Figure 3a - Rainy River Mine, Total Suspended Solids Concentration in Pinewood River 2015-2022

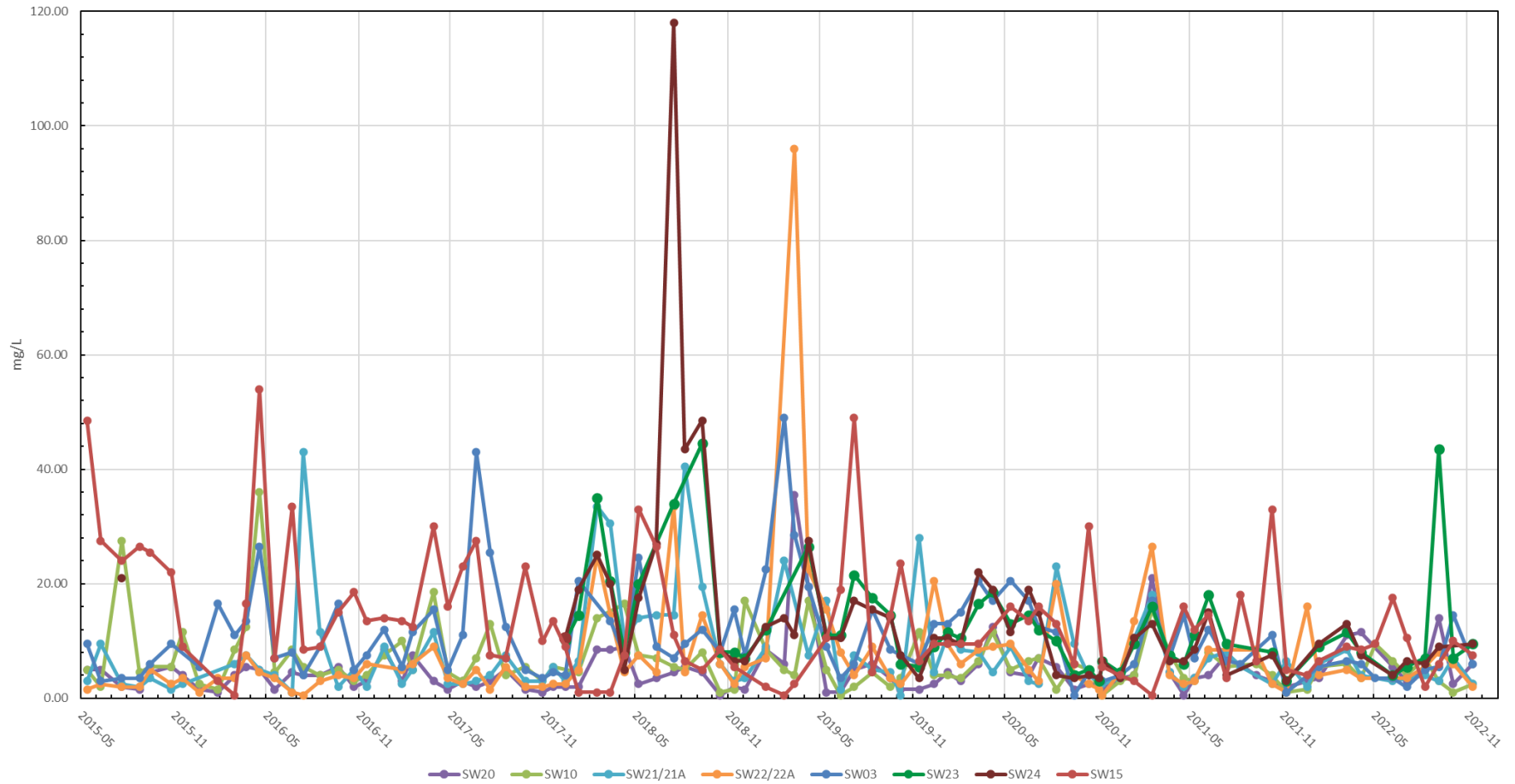


Figure 3b - Rainy River Mine, Total Suspended Solids Concentration in Pinewood River 2022

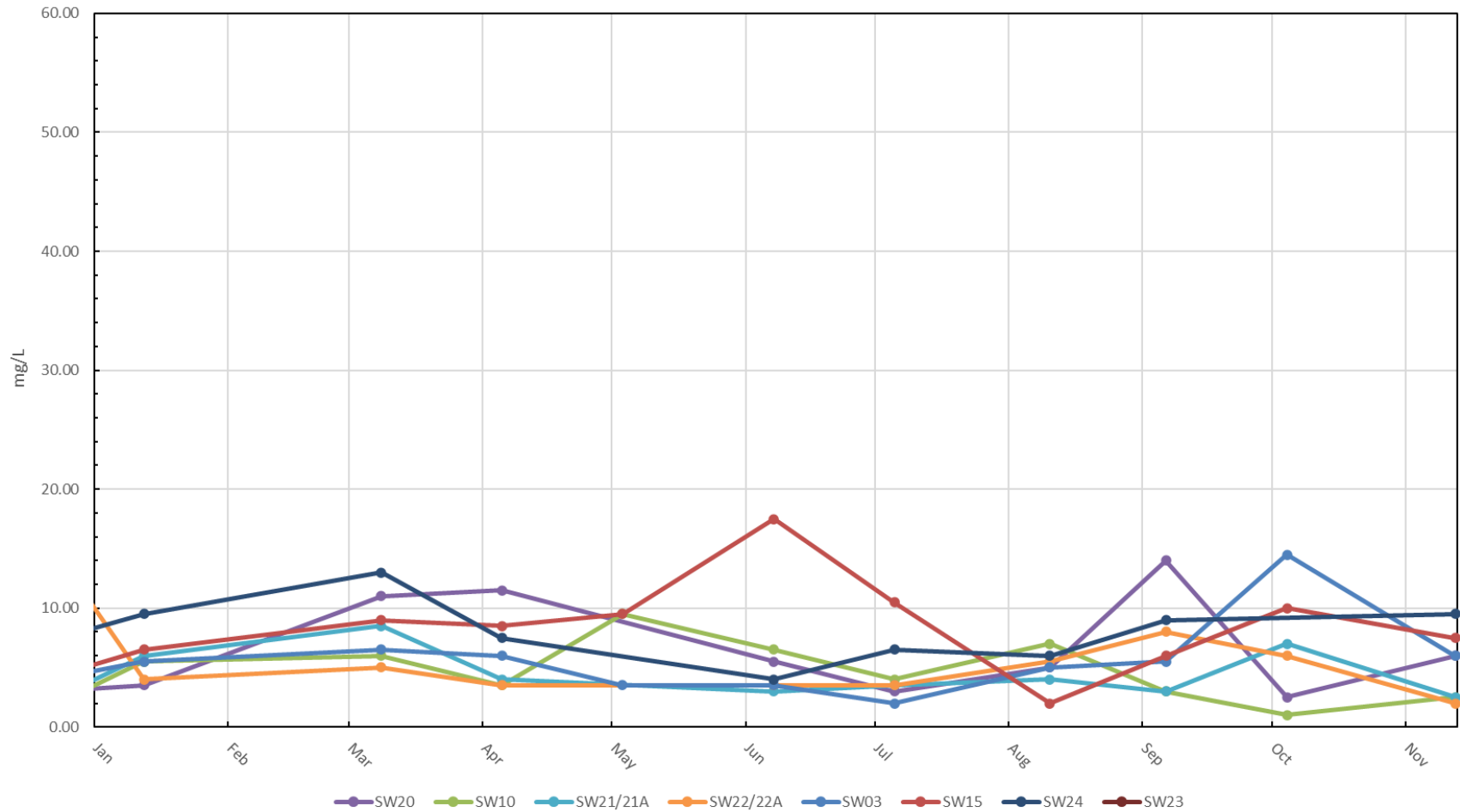


Figure 4a - Rainy River Mine, Total Arsenic in Pinewood River 2015-2022

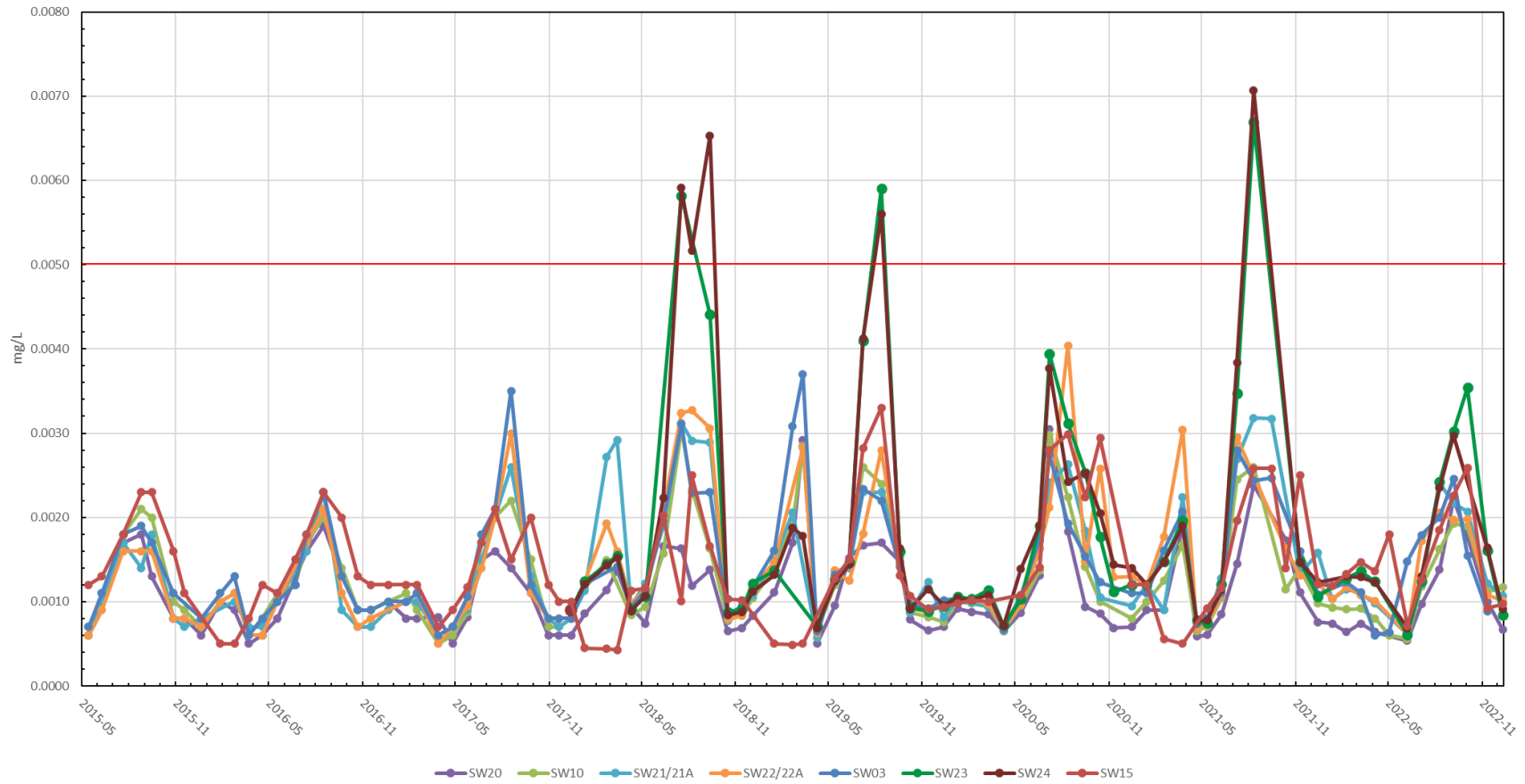


Figure 4b - Rainy River Mine, Total Arsenic in Pinewood River 2022

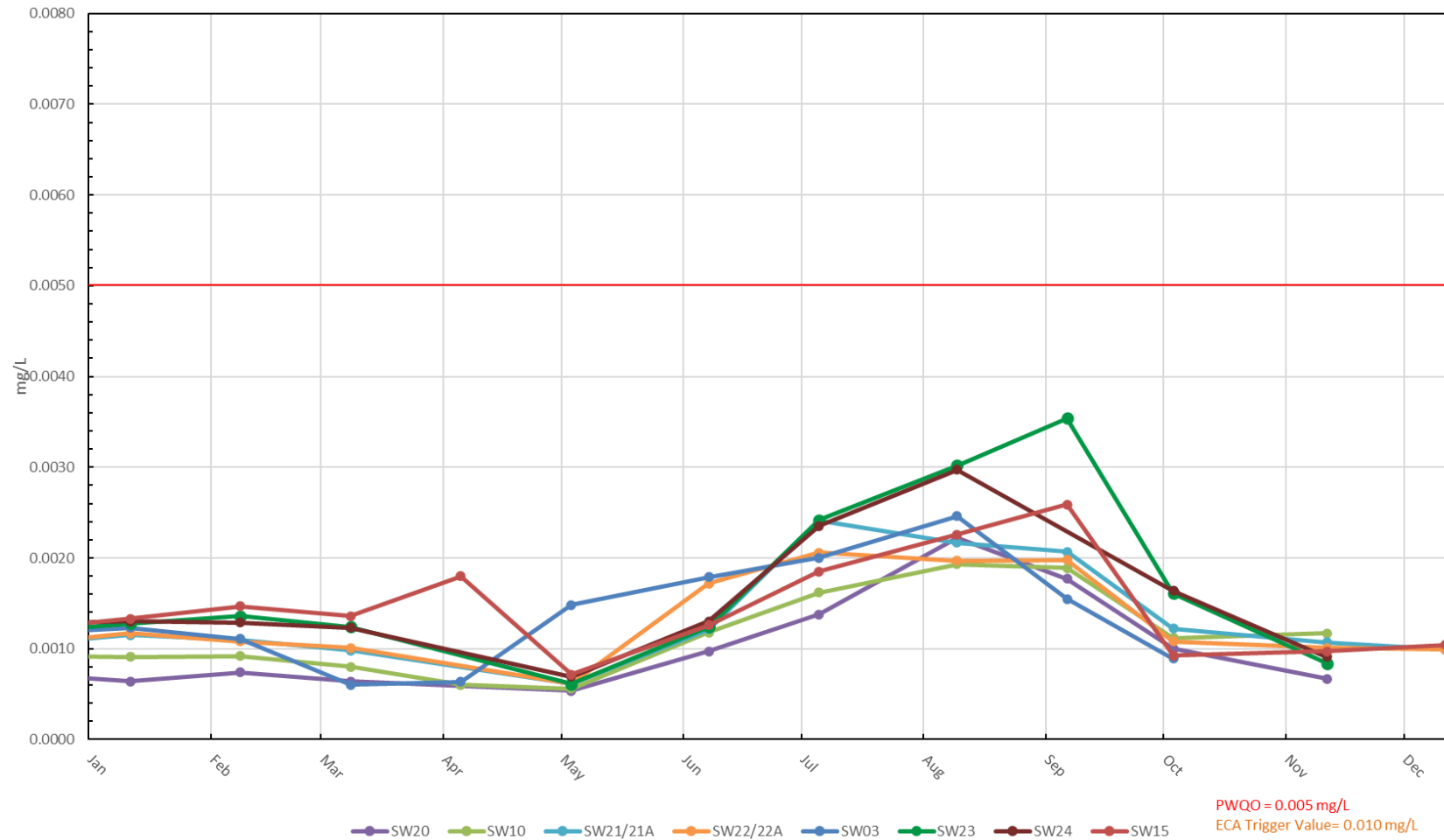


Figure 5b - Rainy River Mine, Total Copper in Pinewood River 2022

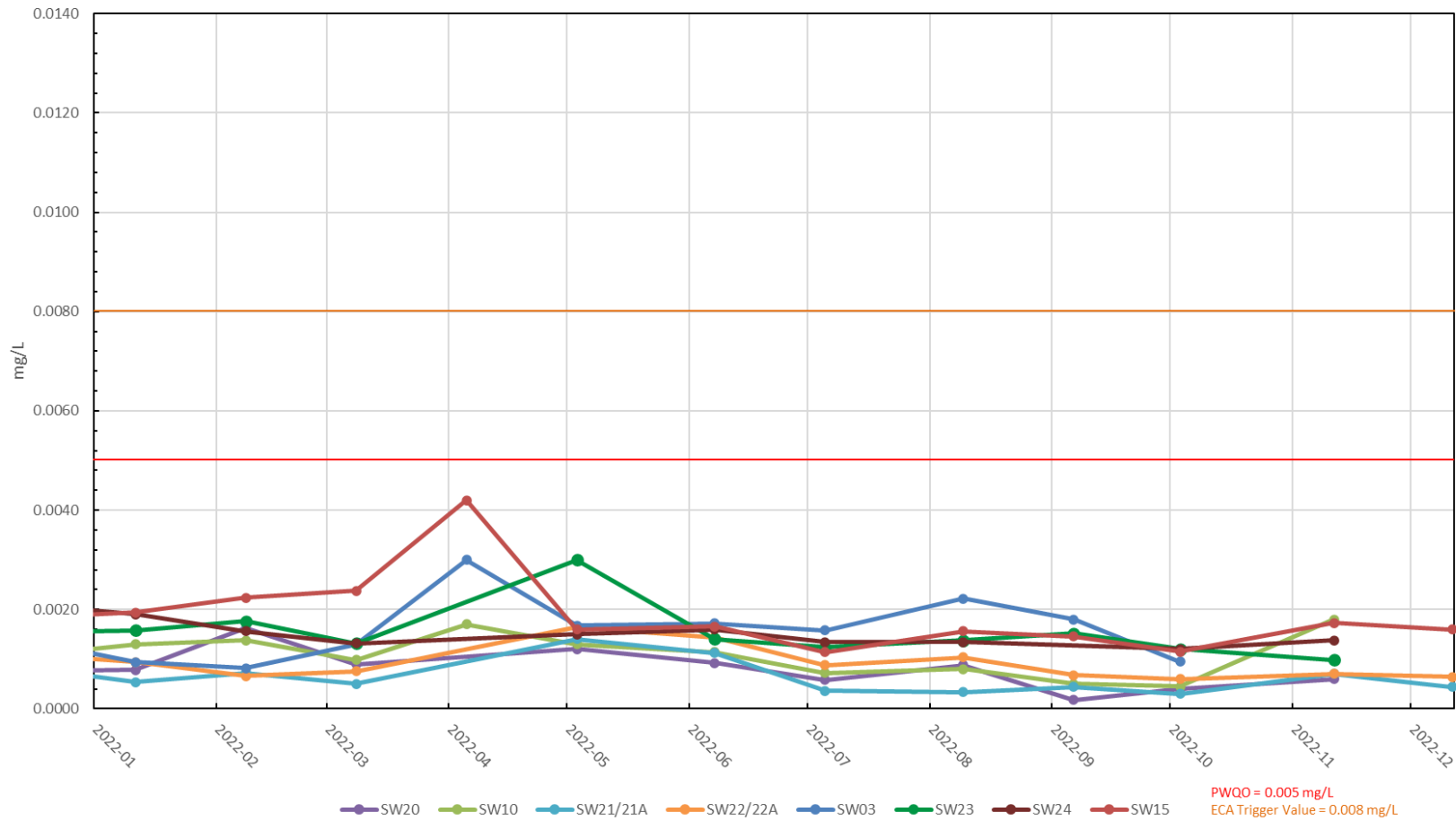


Figure 6a - Rainy River Mine, Total Lead in Pinewood River 2015-2022

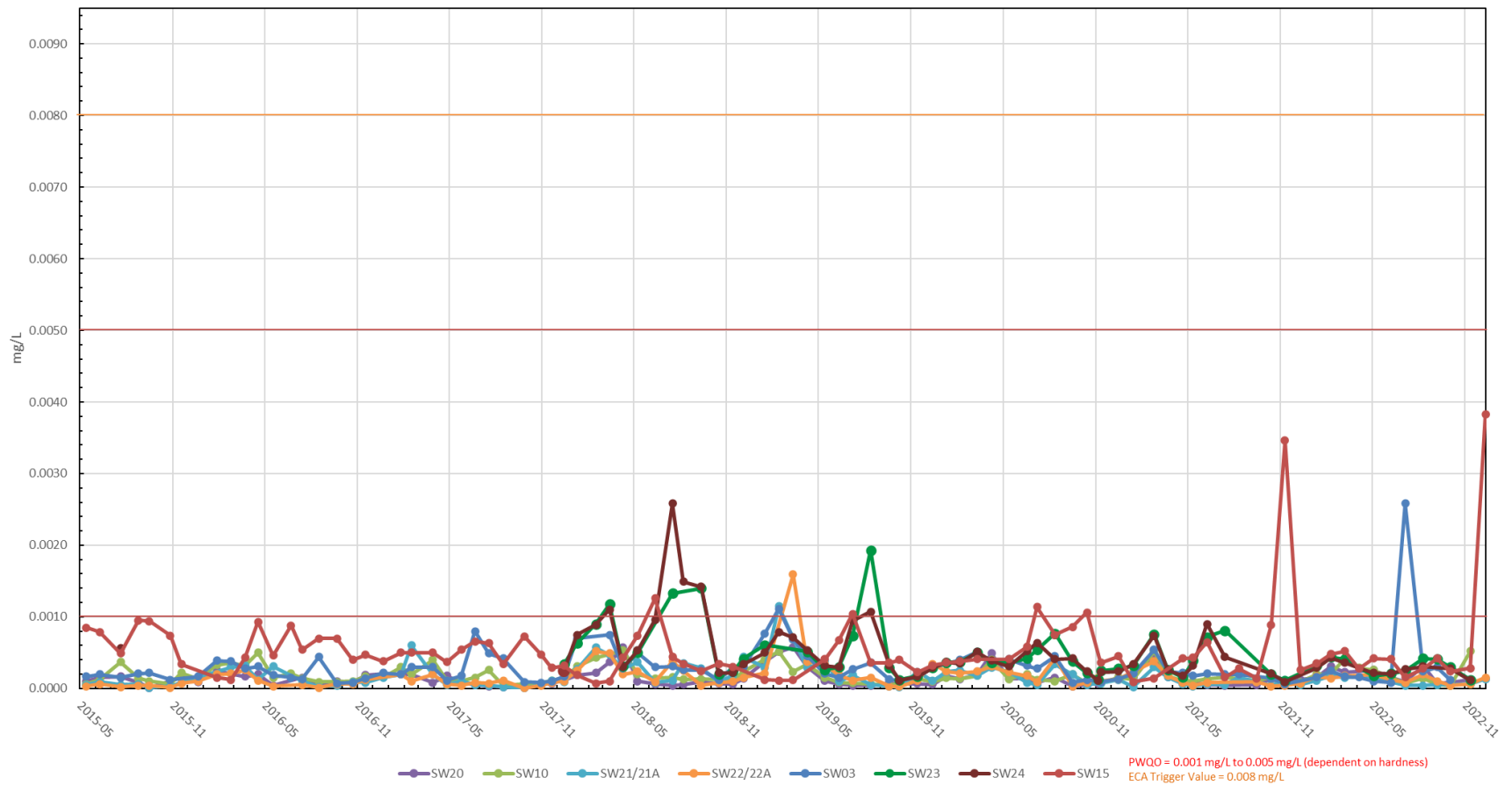


Figure 6b - Rainy River Mine, Total Lead in Pinewood River 2022

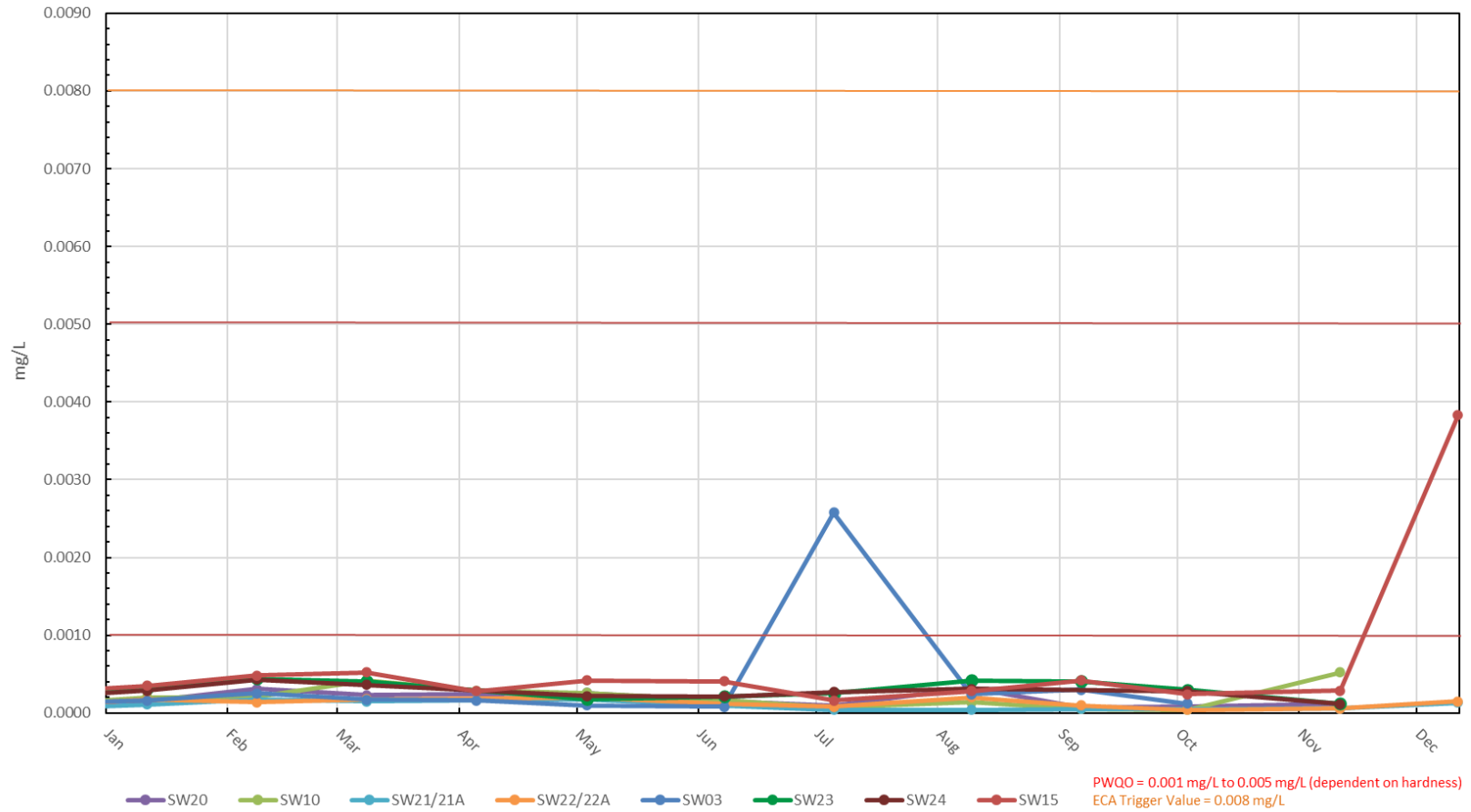


Figure 7a - Rainy River Mine, Total Nickel in Pinewood River 2015-2022

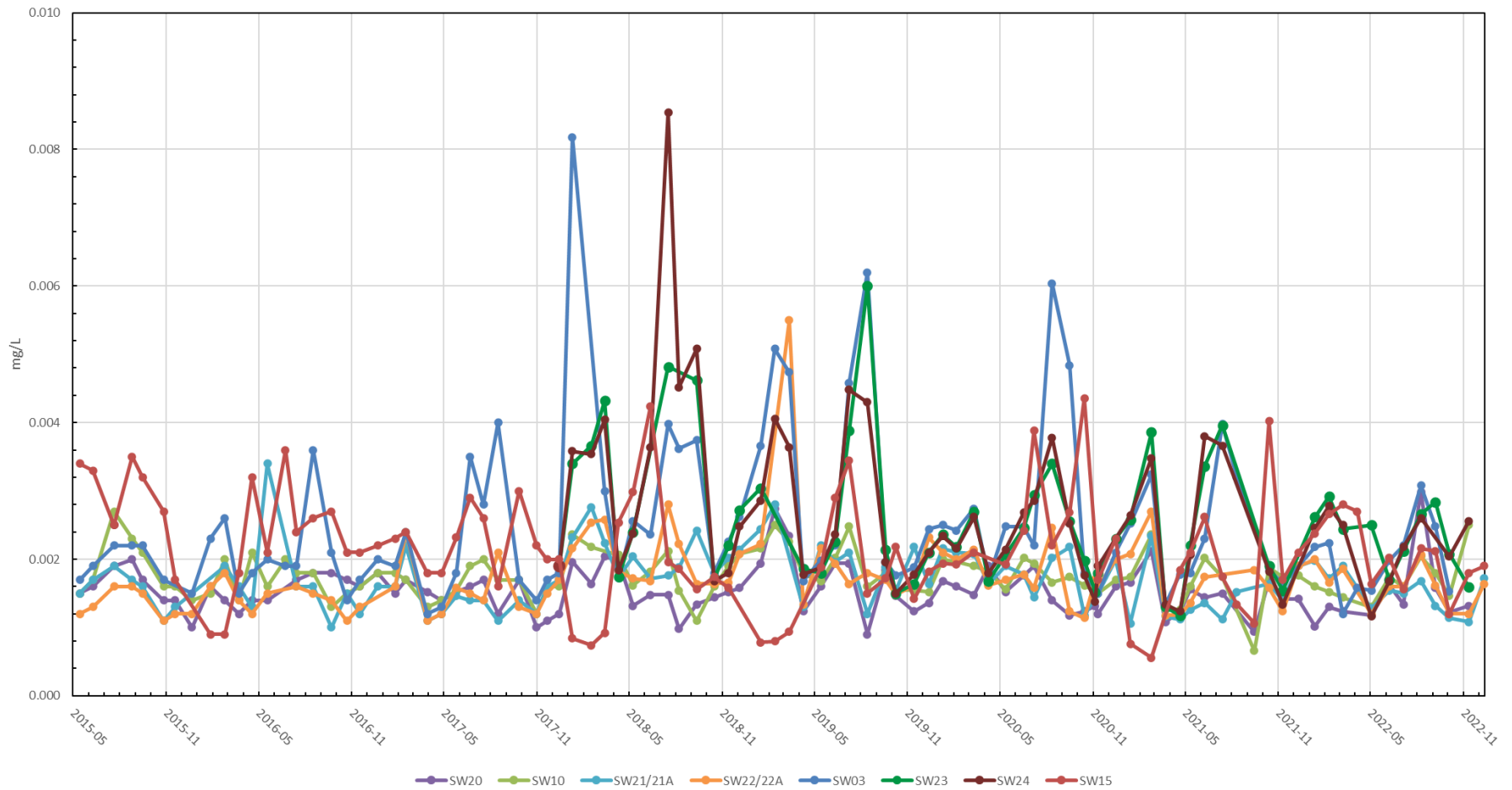


Figure 7b - Rainy River Mine, Total Nickel in Pinewood River 2022

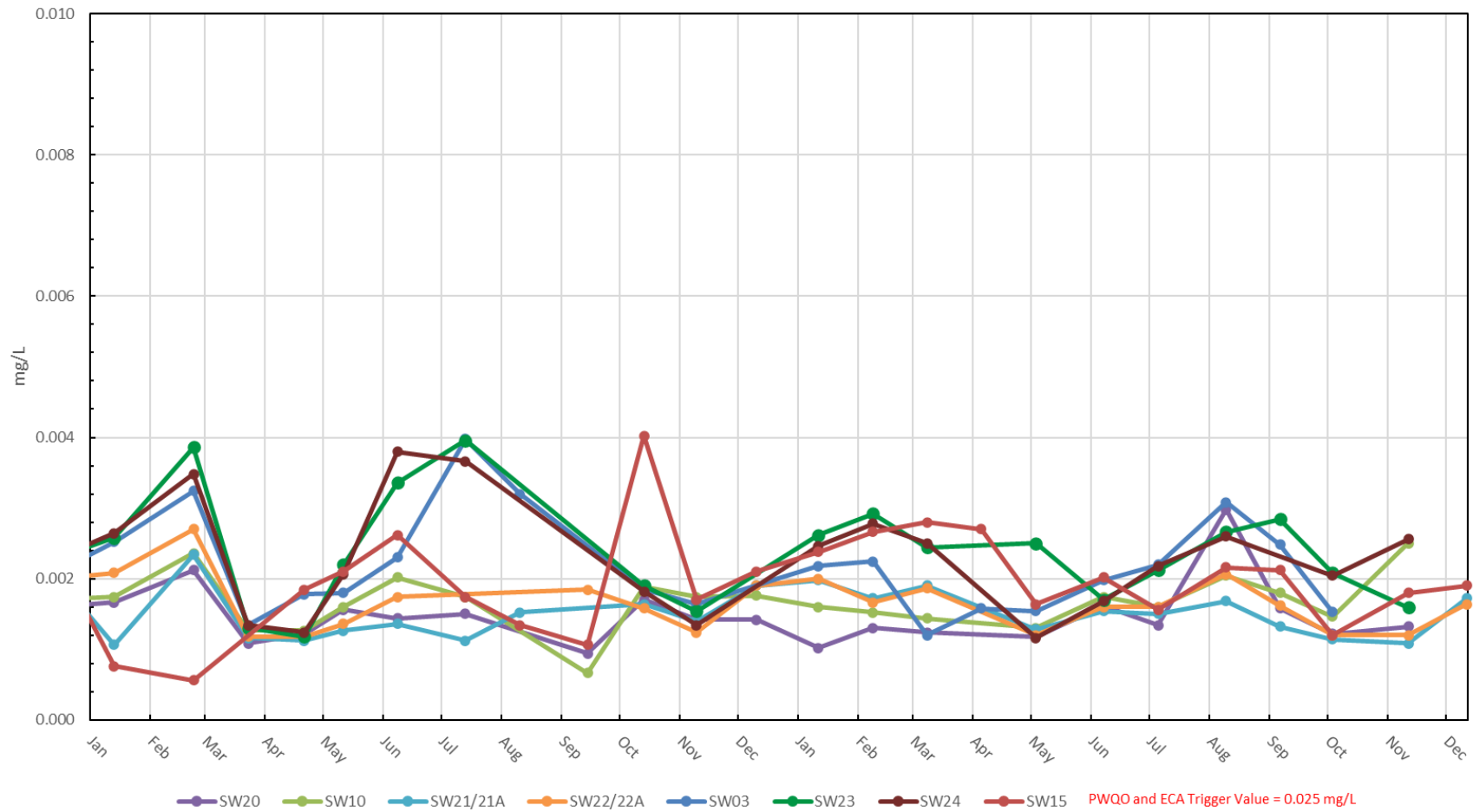


Figure 8a - Rainy River Mine, Total Phosphorus in Pinewood River 2017-2022

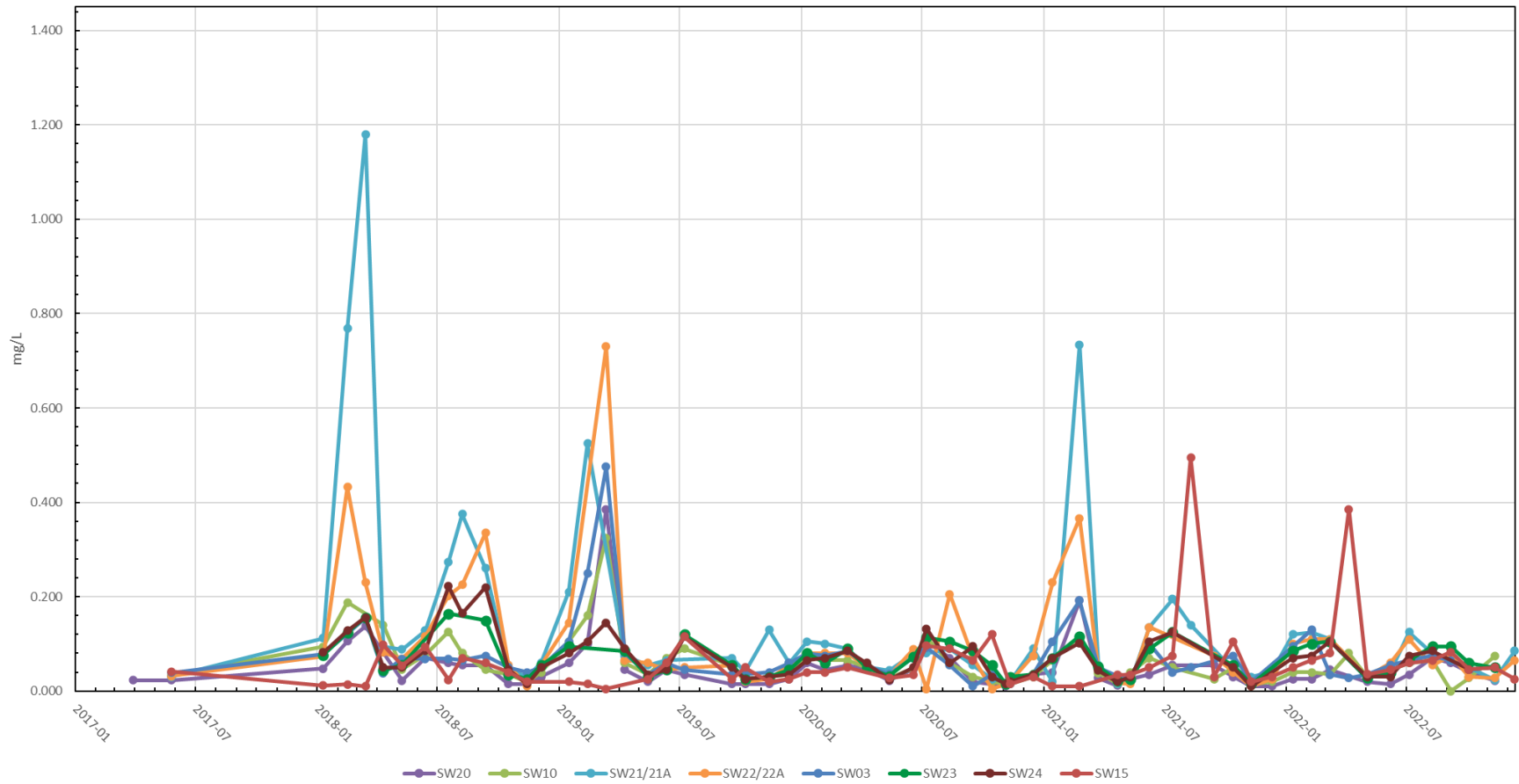


Figure 8b - Rainy River Mine, Total Phosphorus in Pinewood River 2022

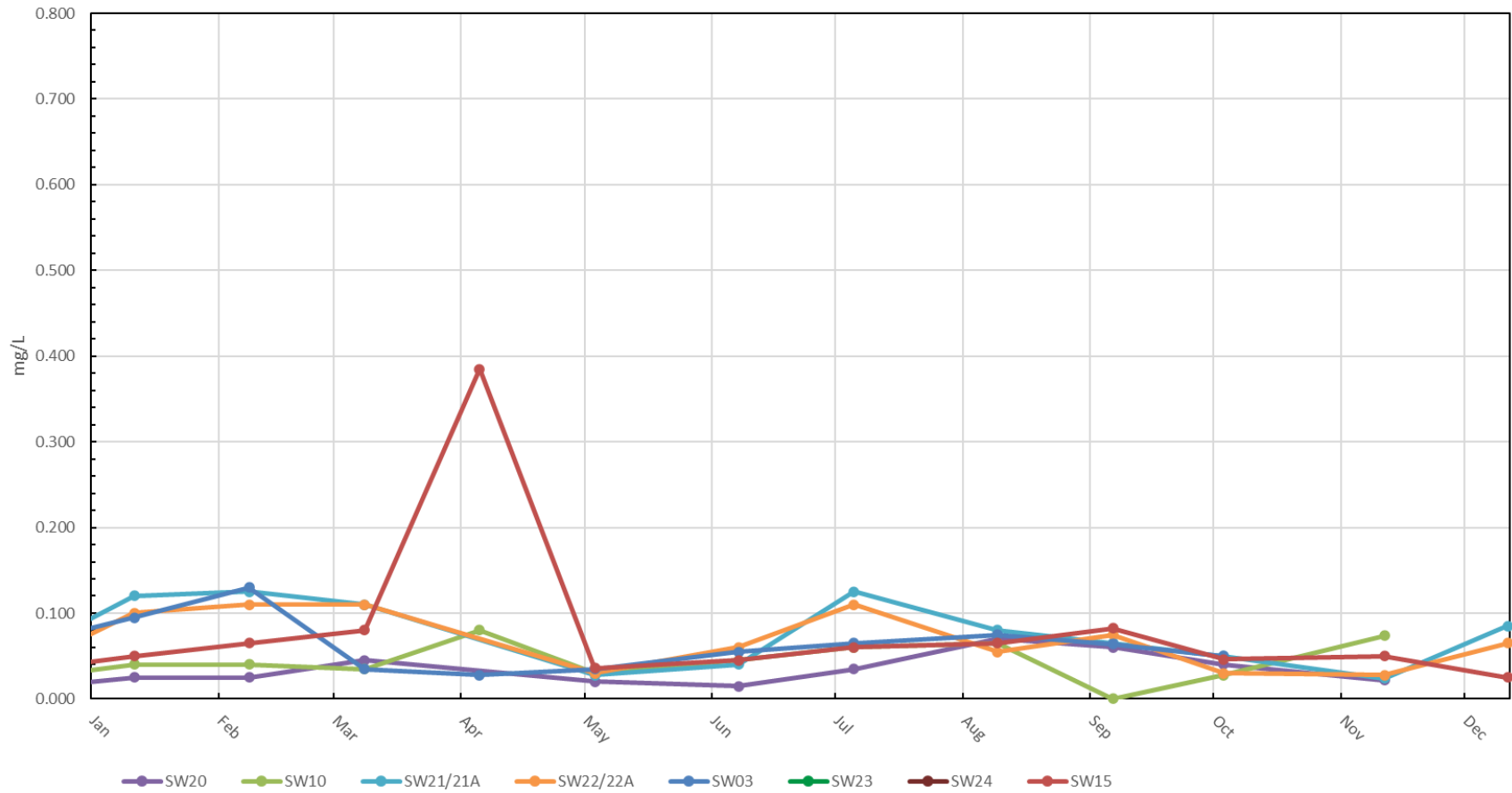


Figure 9a - Rainy River Mine, Total Zinc in Pinewood River 2015-2022

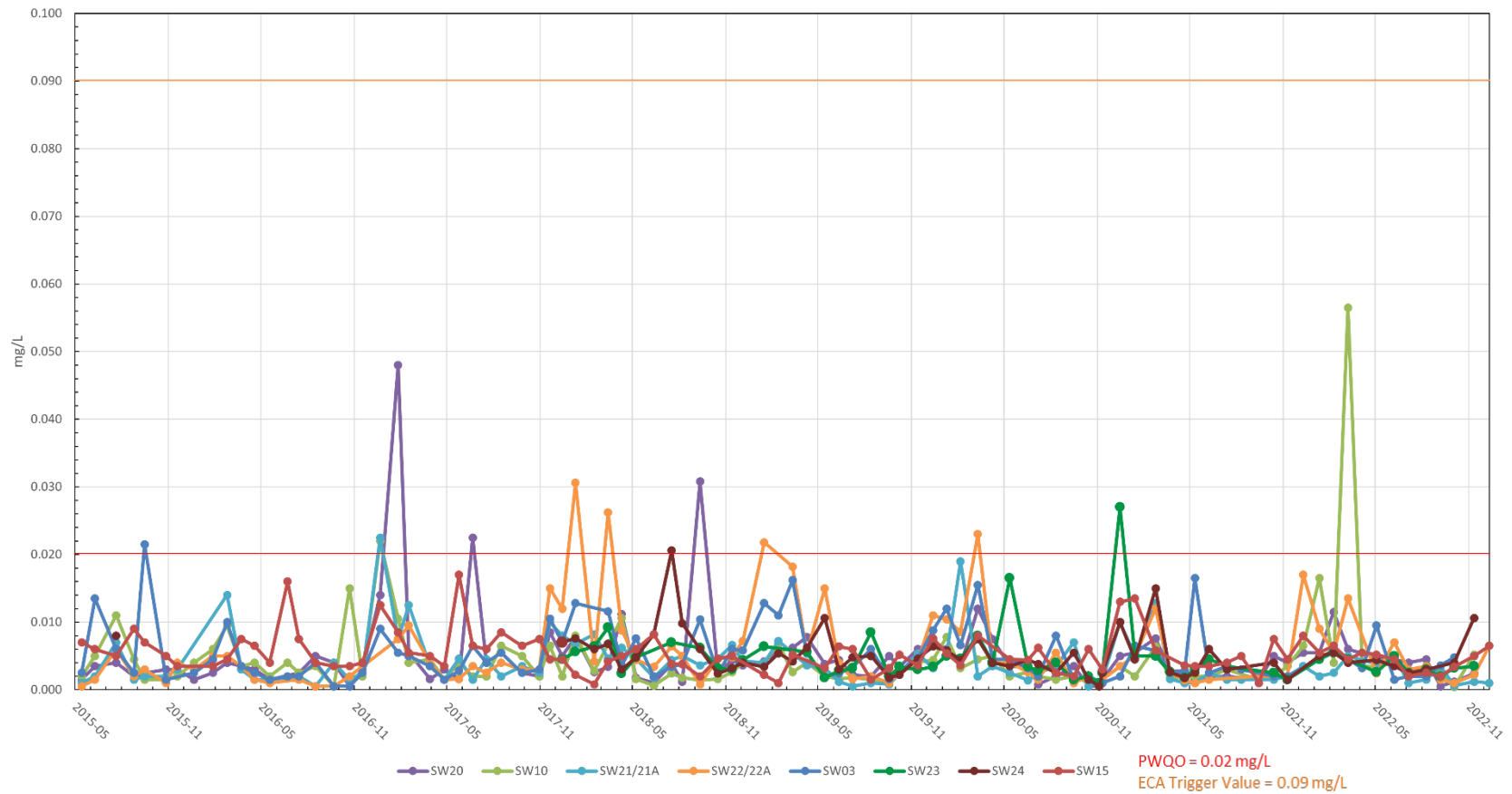


Figure 9b - Rainy River Mine, Total Zinc in Pinewood River 2022

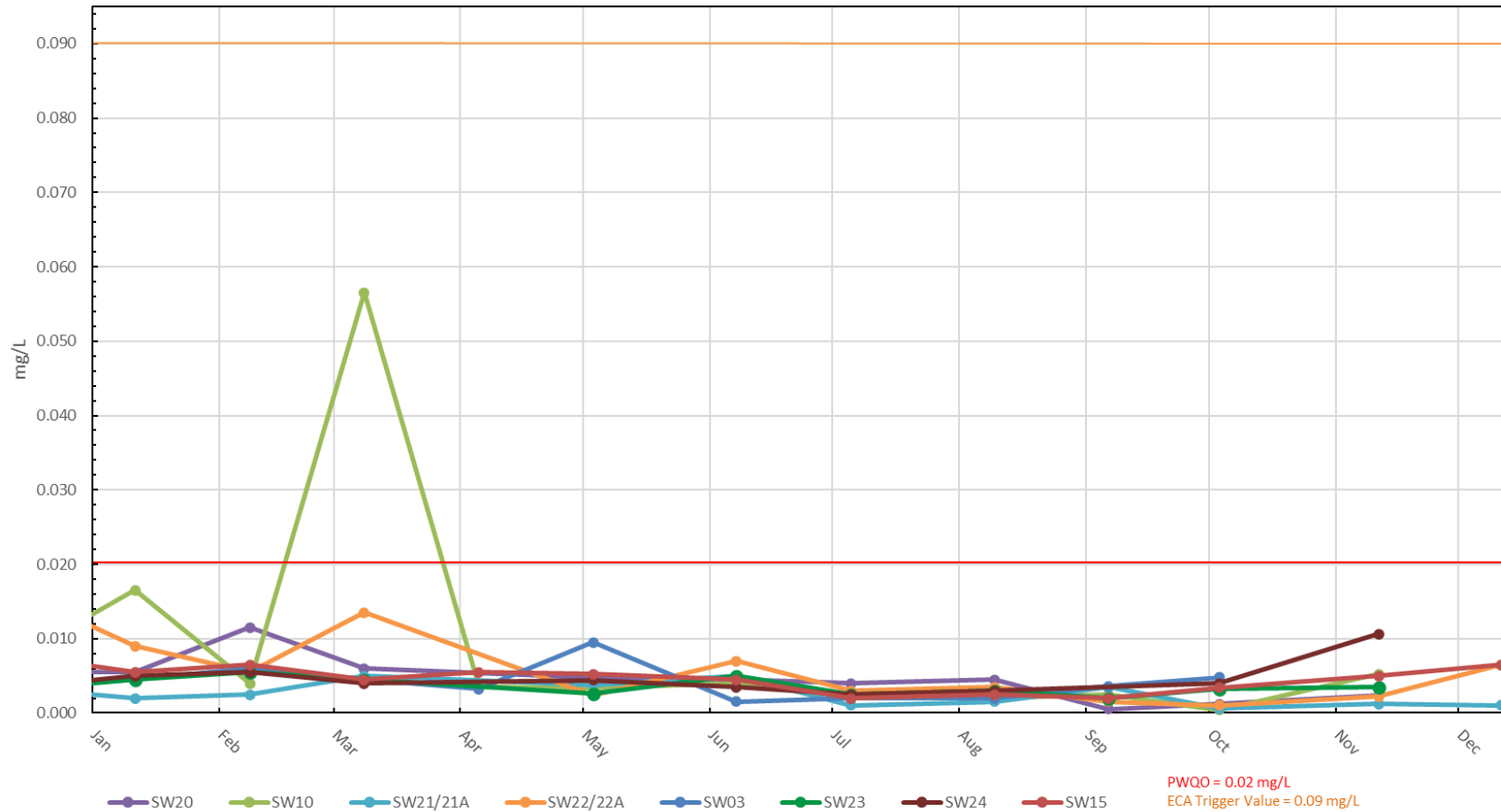


Figure 10a - Rainy River Mine, Total Mercury in Pinewood River 2015-2022

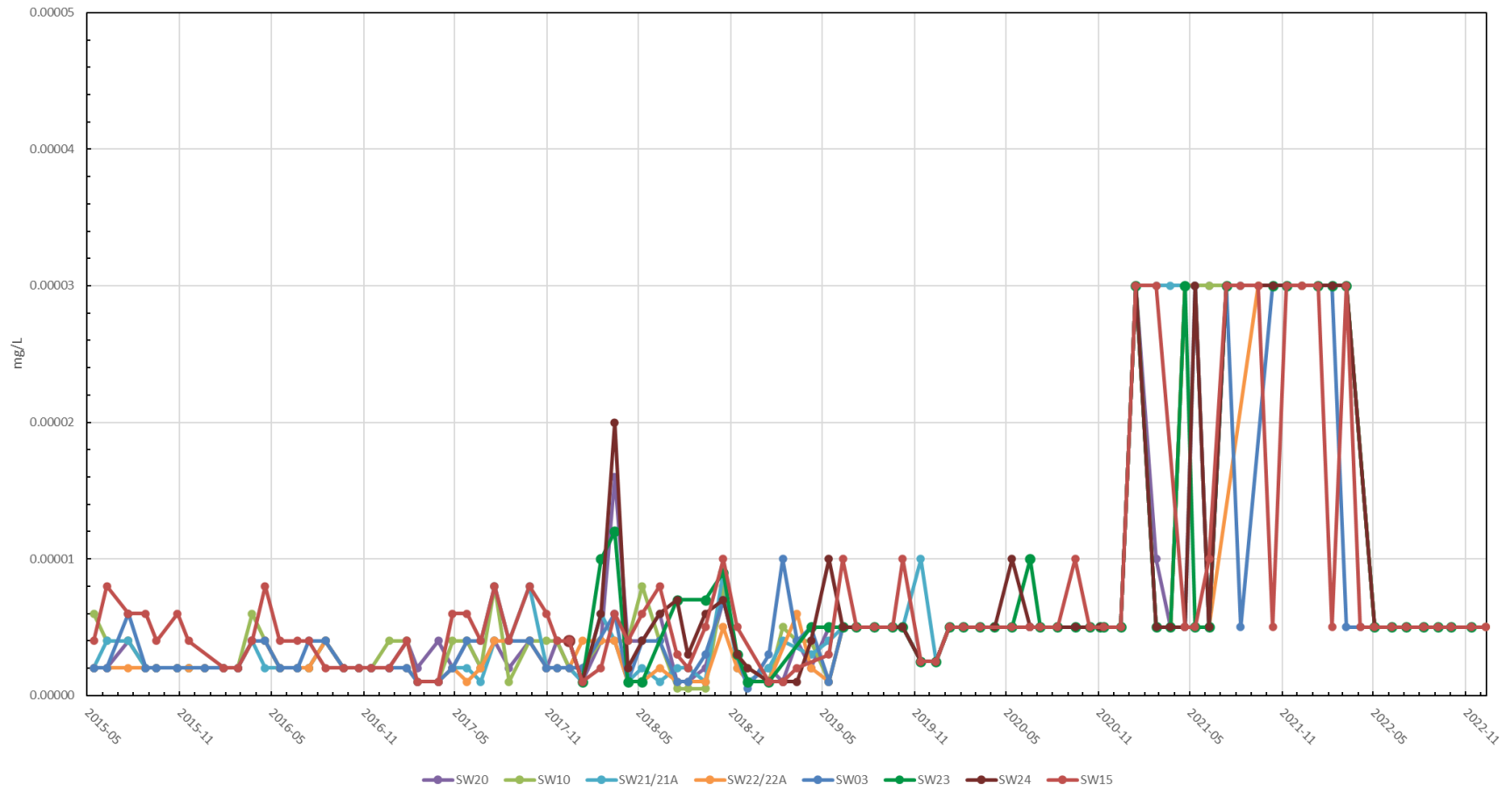


Figure 10b - Rainy River Mine, Total Mercury in Pinewood River 2022

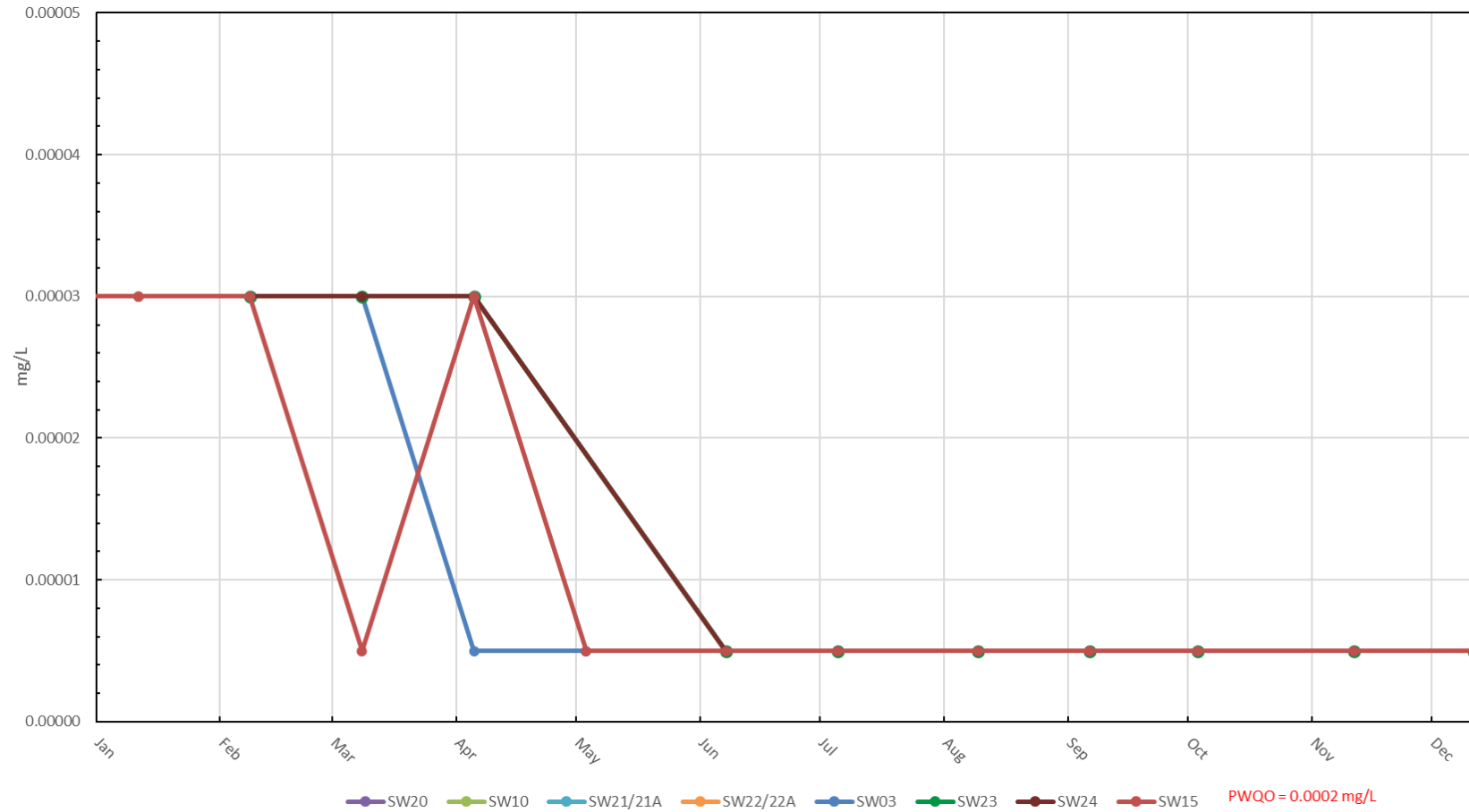


Figure 11a - Rainy River Mine, Un-ionized Ammonia in Pinewood River 2015-2022

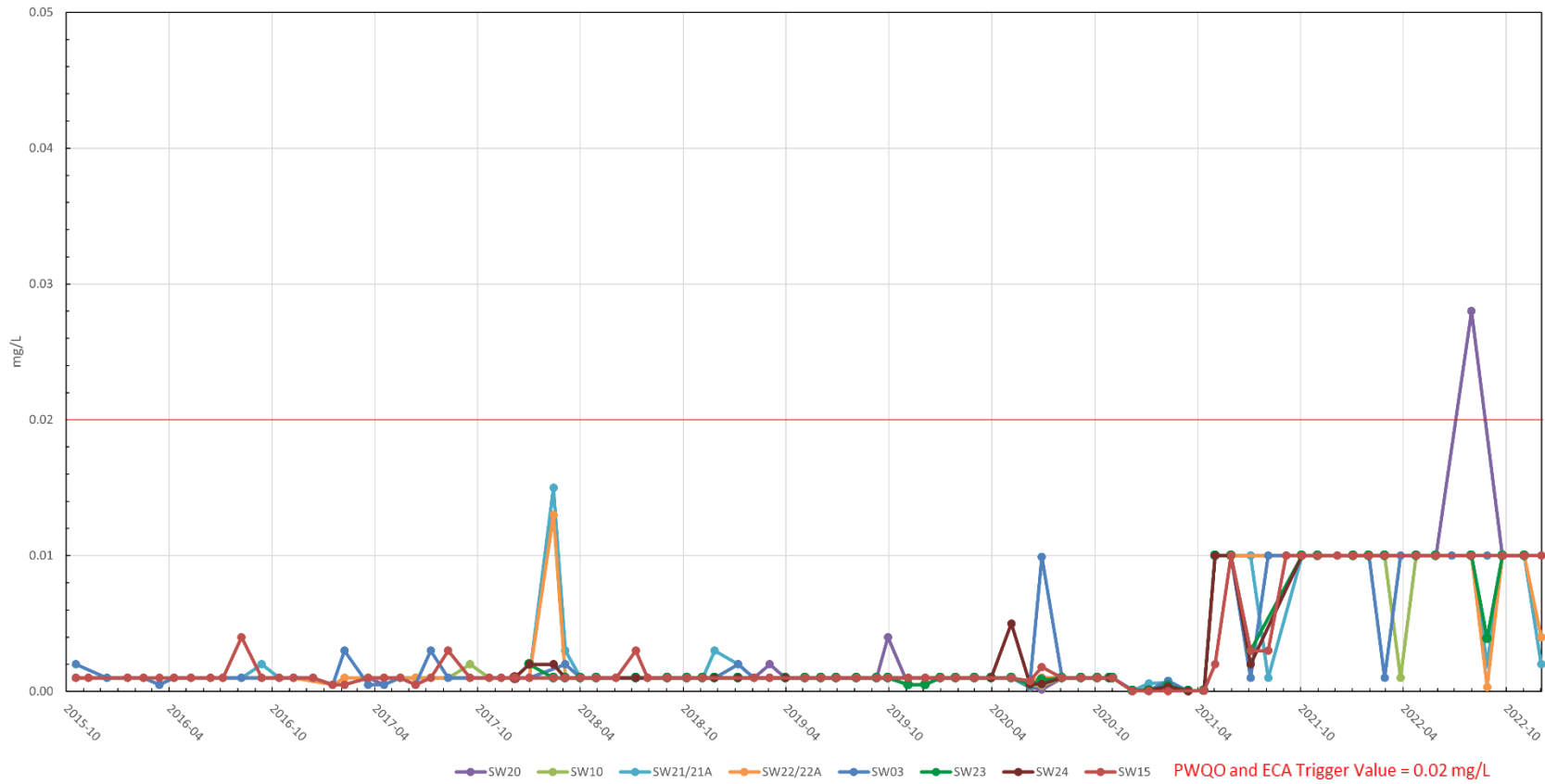


Figure 11b - Rainy River Mine, Un-ionized Ammonia in Pinewood River 2022

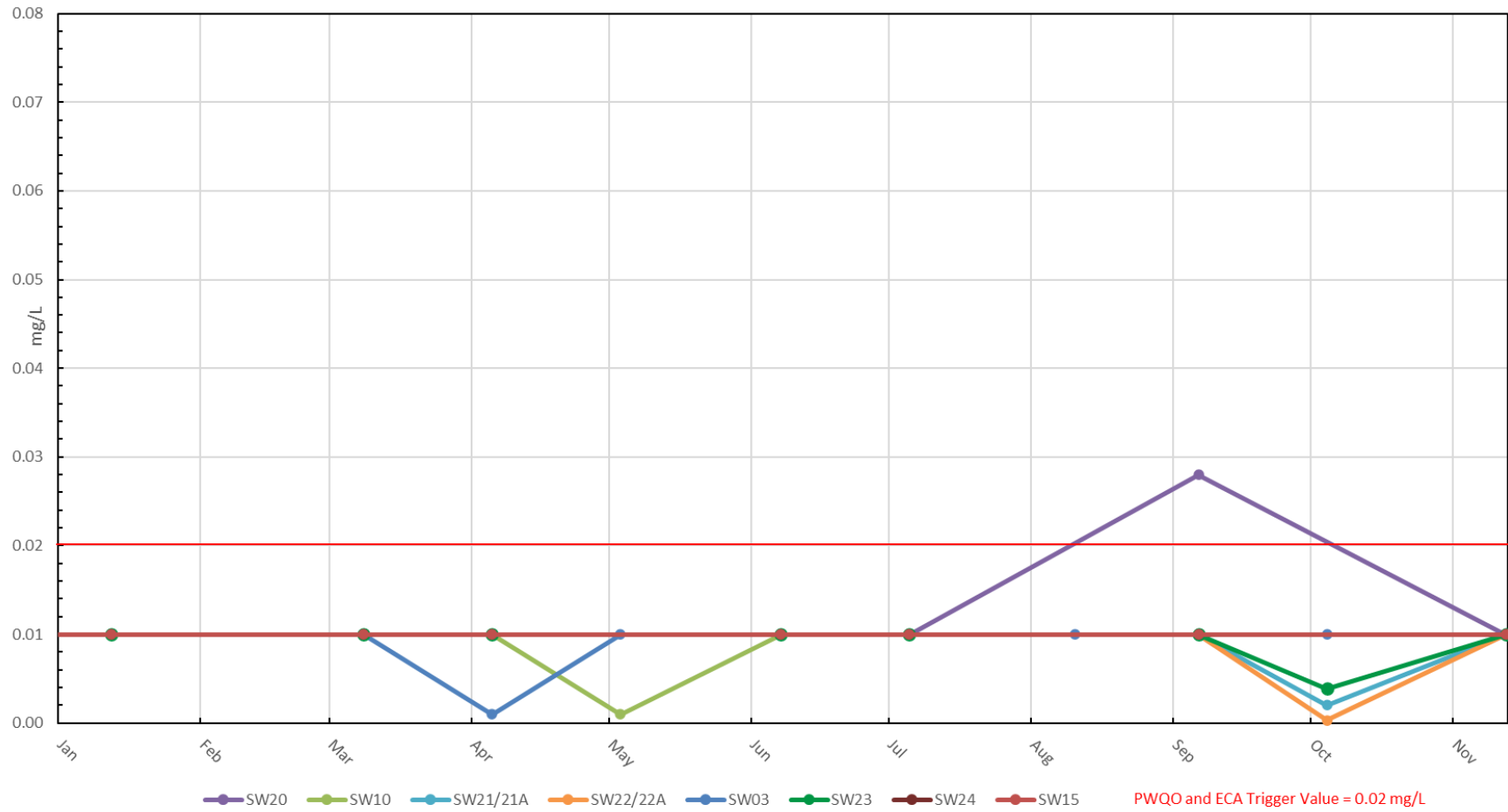


Figure 12a - Rainy River Mine, Free Cyanide in Pinewood River 2018-2022

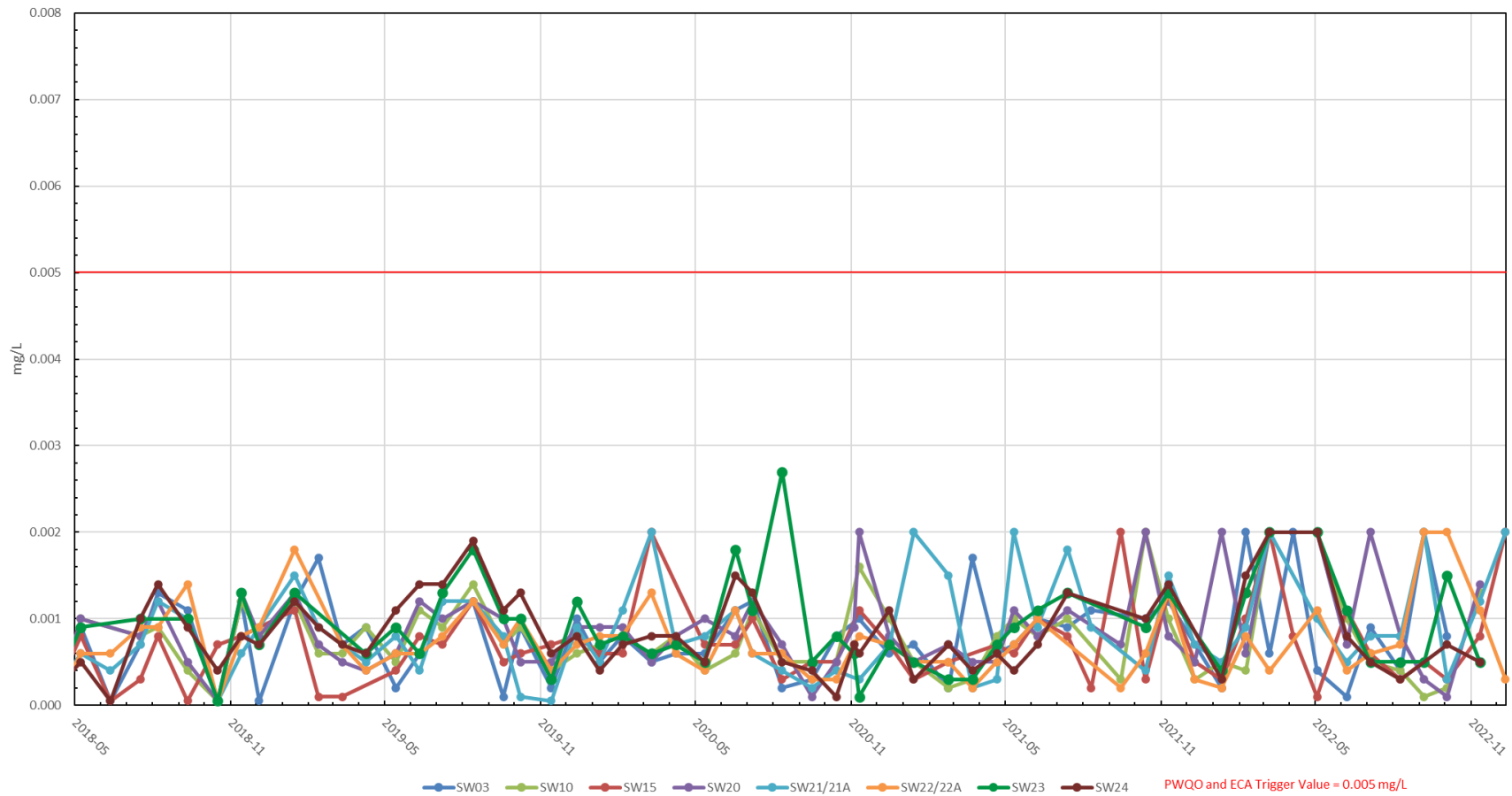


Figure 12b - Rainy River Mine, Free Cyanide in Pinewood River 2022

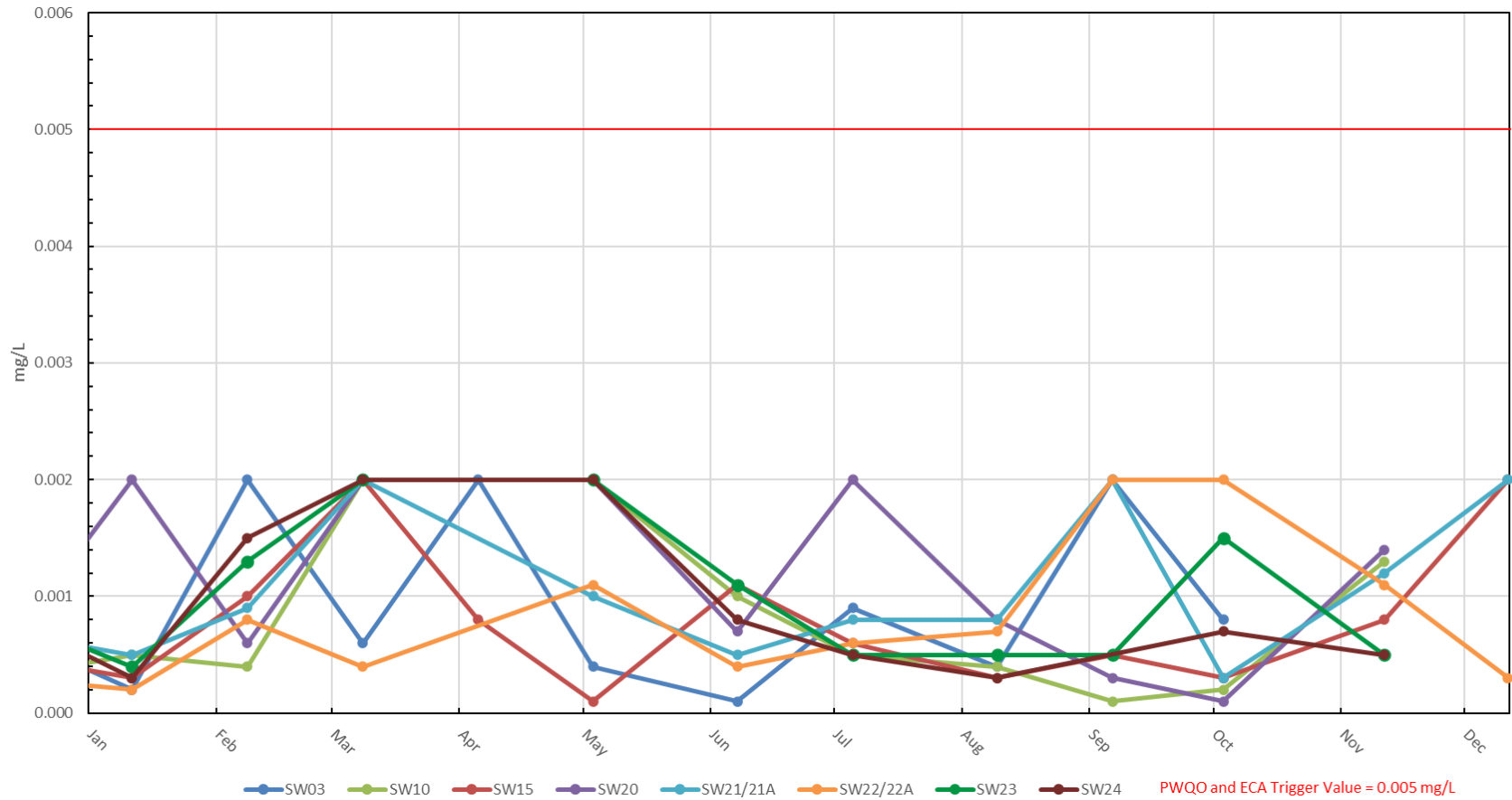


Figure 13a - Rainy River Mine, Field pH levels in Area Creeks 2015-2022

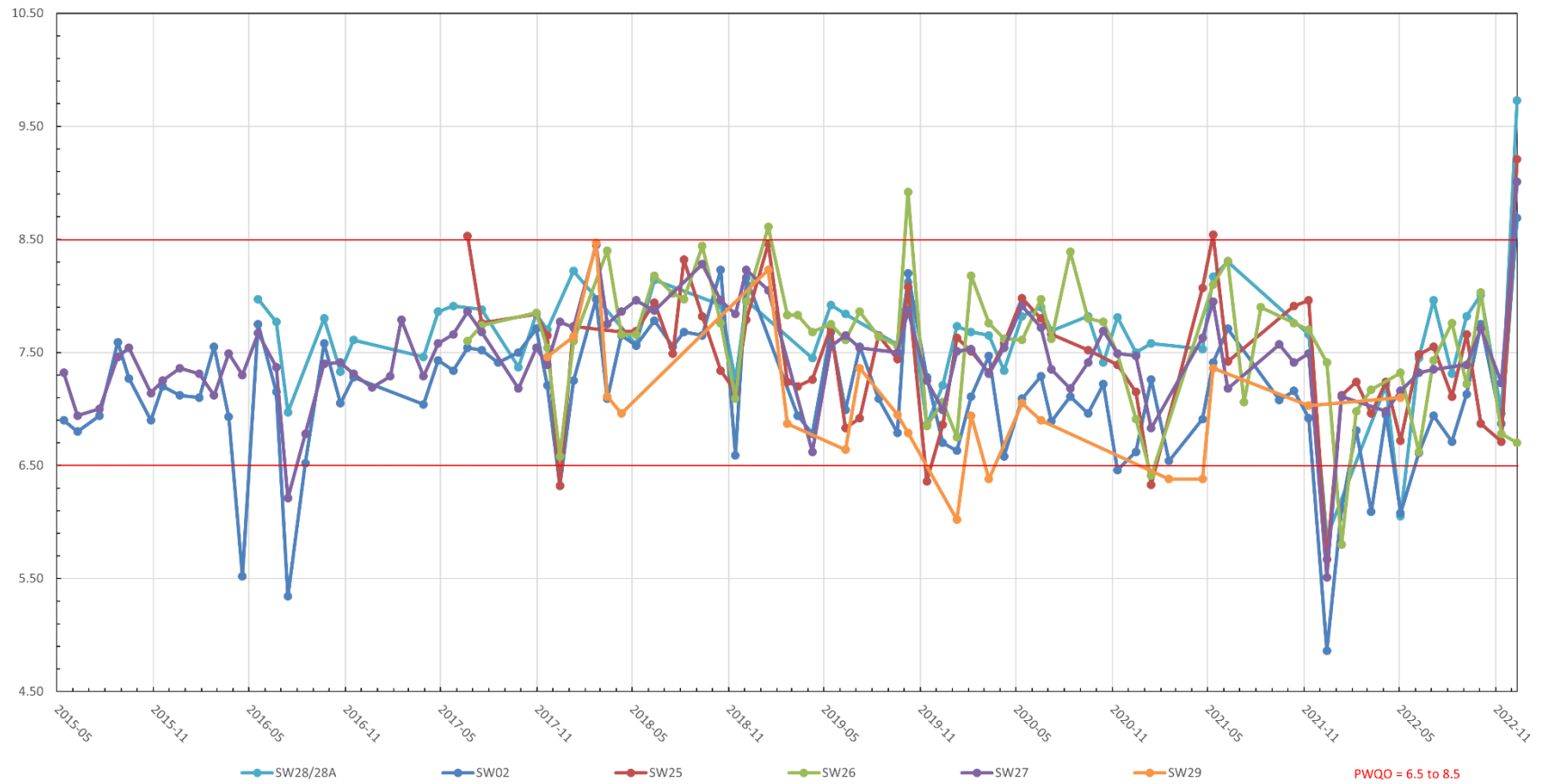


Figure 13b - Rainy River Mine, Field pH levels in Area Creeks 2022

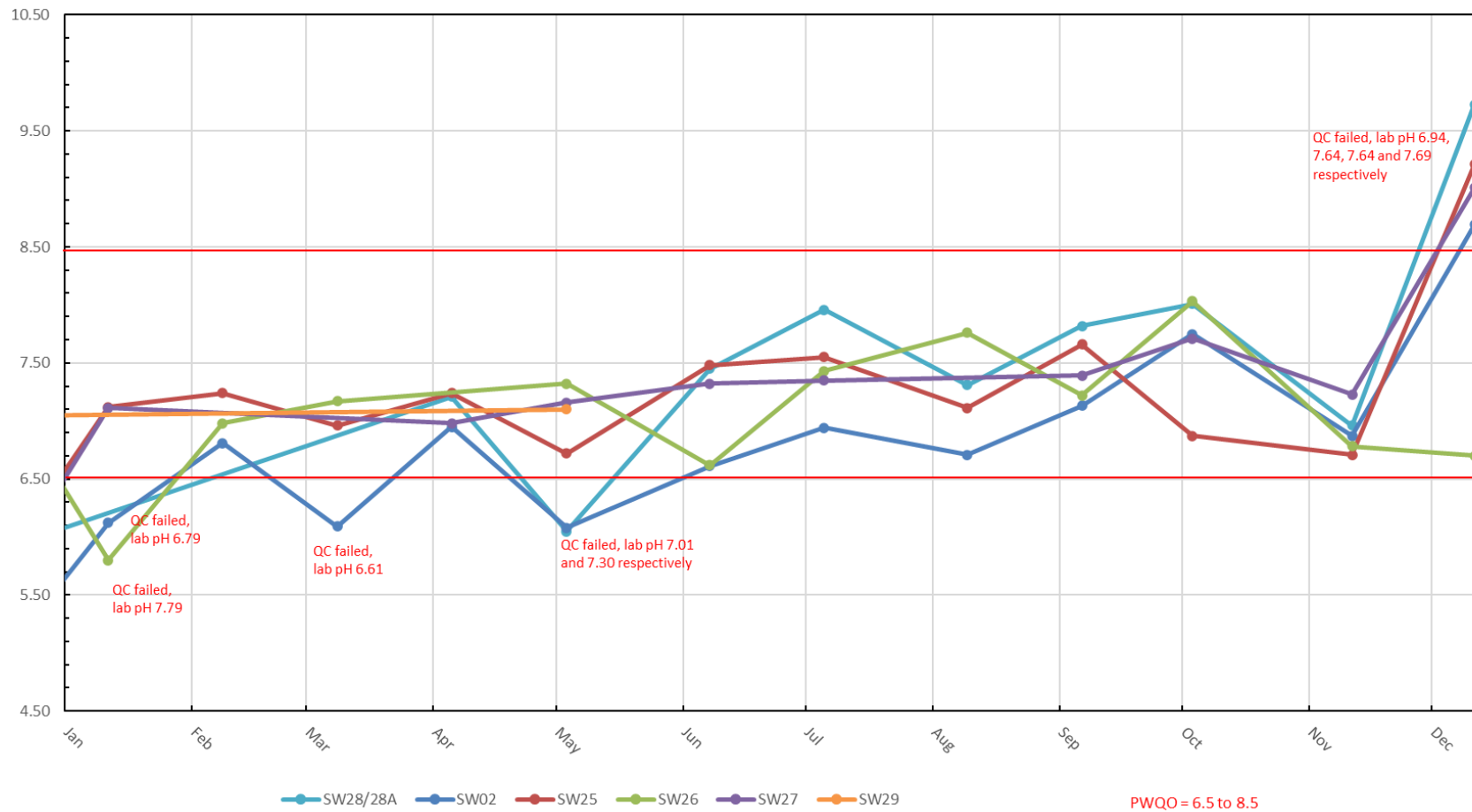


Figure 14a - Rainy River Mine, Total Suspended Solids Concentration in Area Creeks 2015-2022

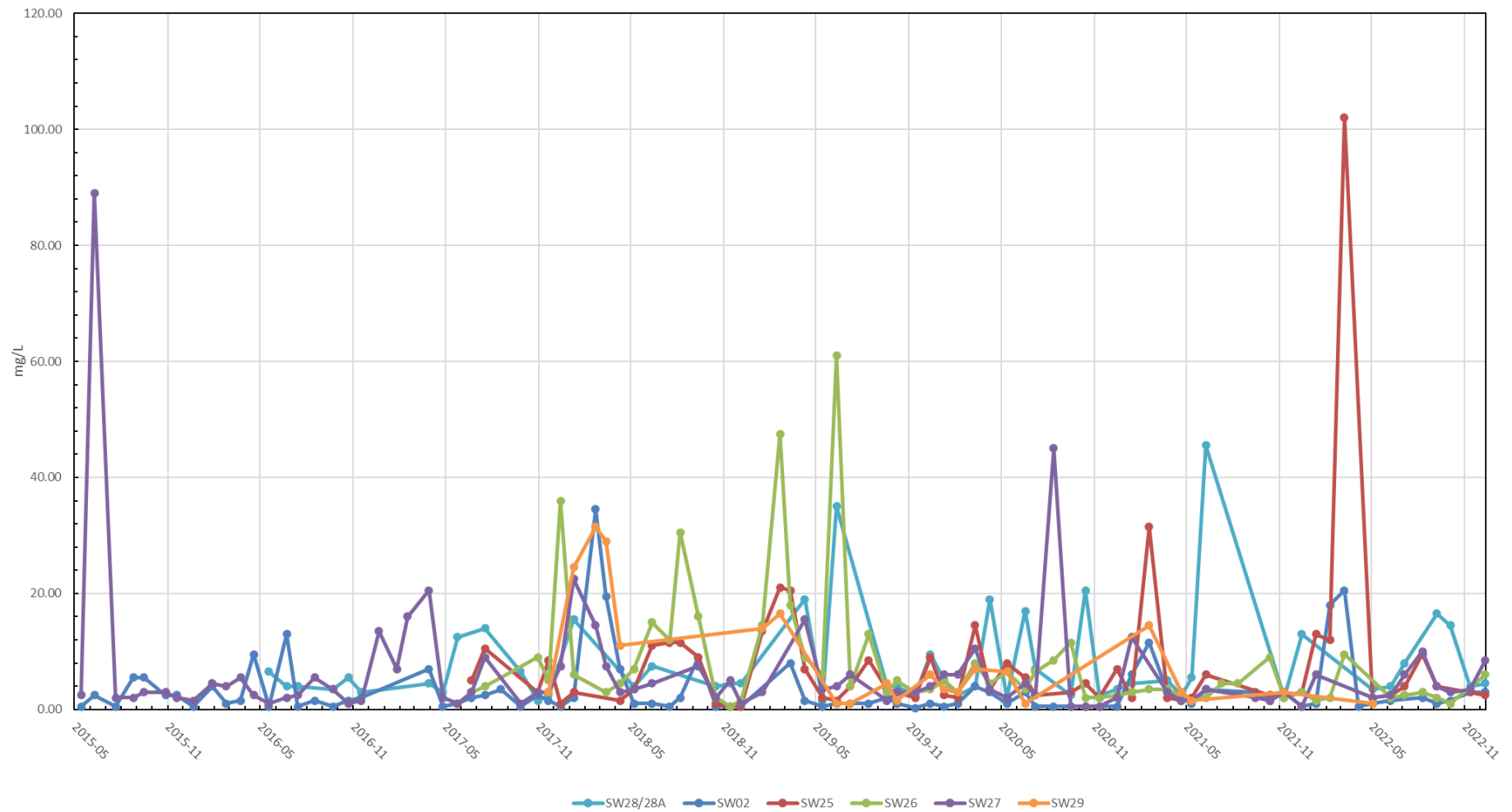


Figure 14b - Rainy River Mine, Total Suspended Solids Concentration in Area Creeks 2022

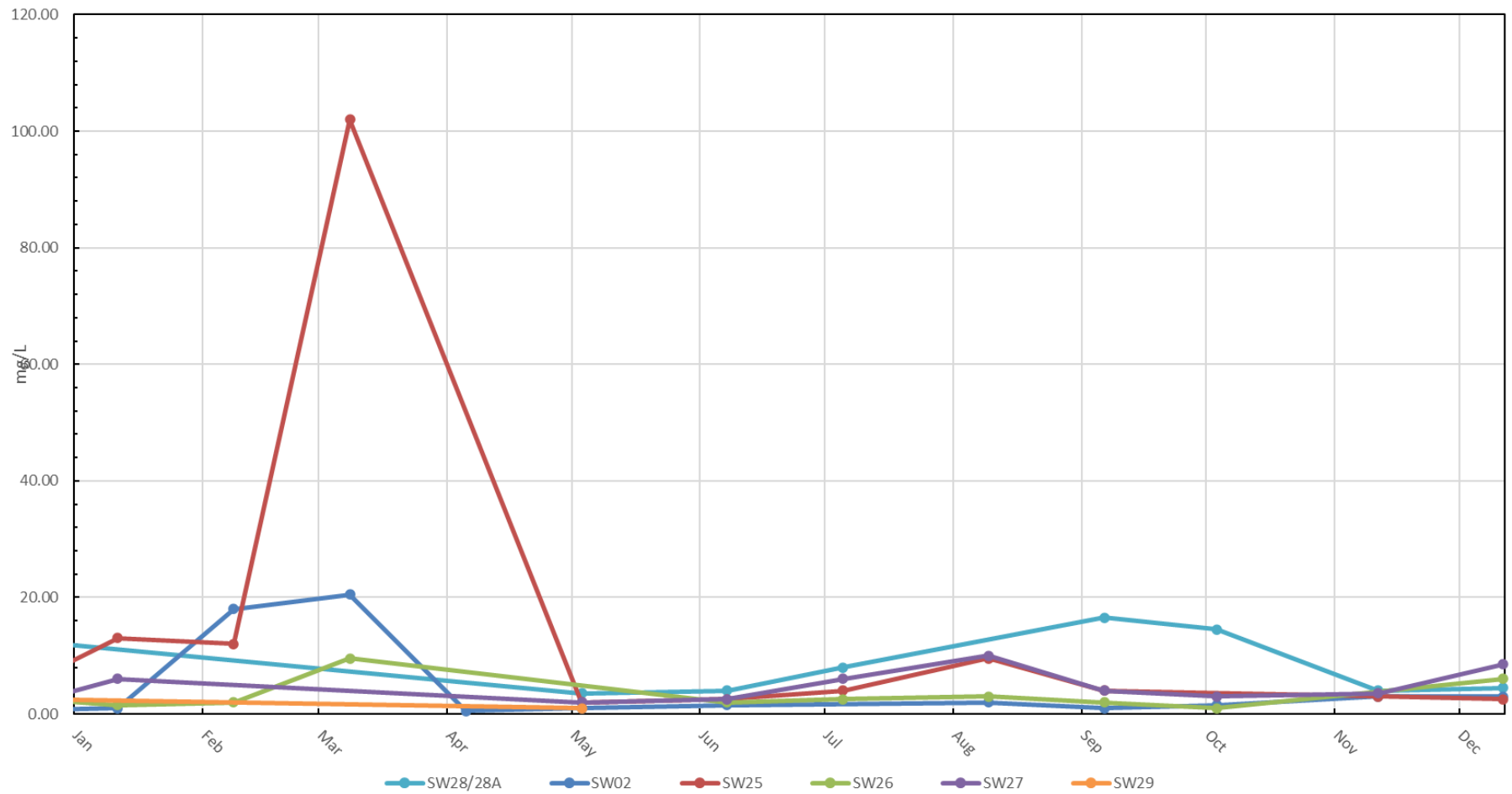


Figure 15a - Rainy River Mine, Total Arsenic in Area Creeks 2015-2022

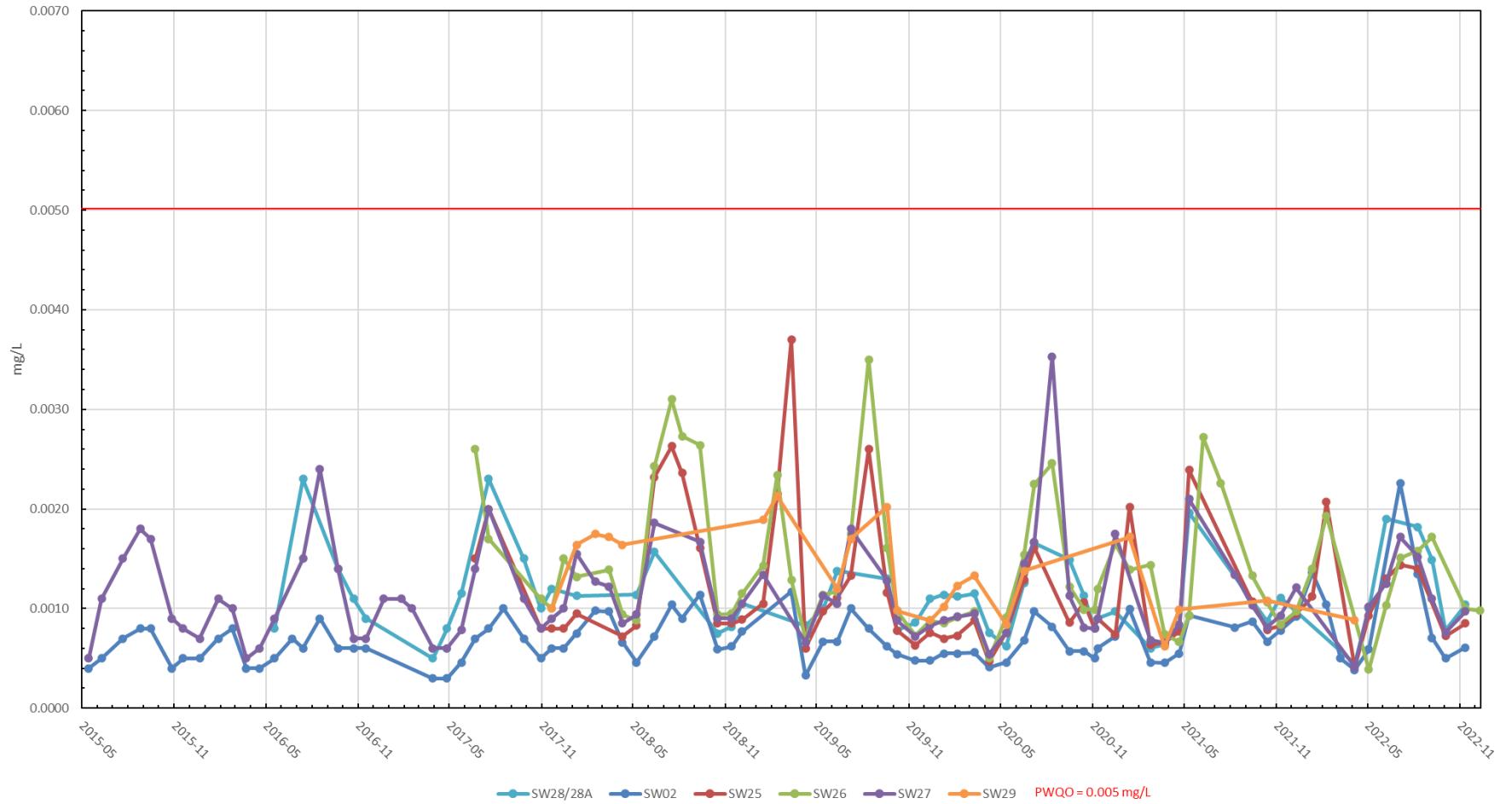


Figure 15b - Rainy River Mine, Total Arsenic in Area Creeks 2022

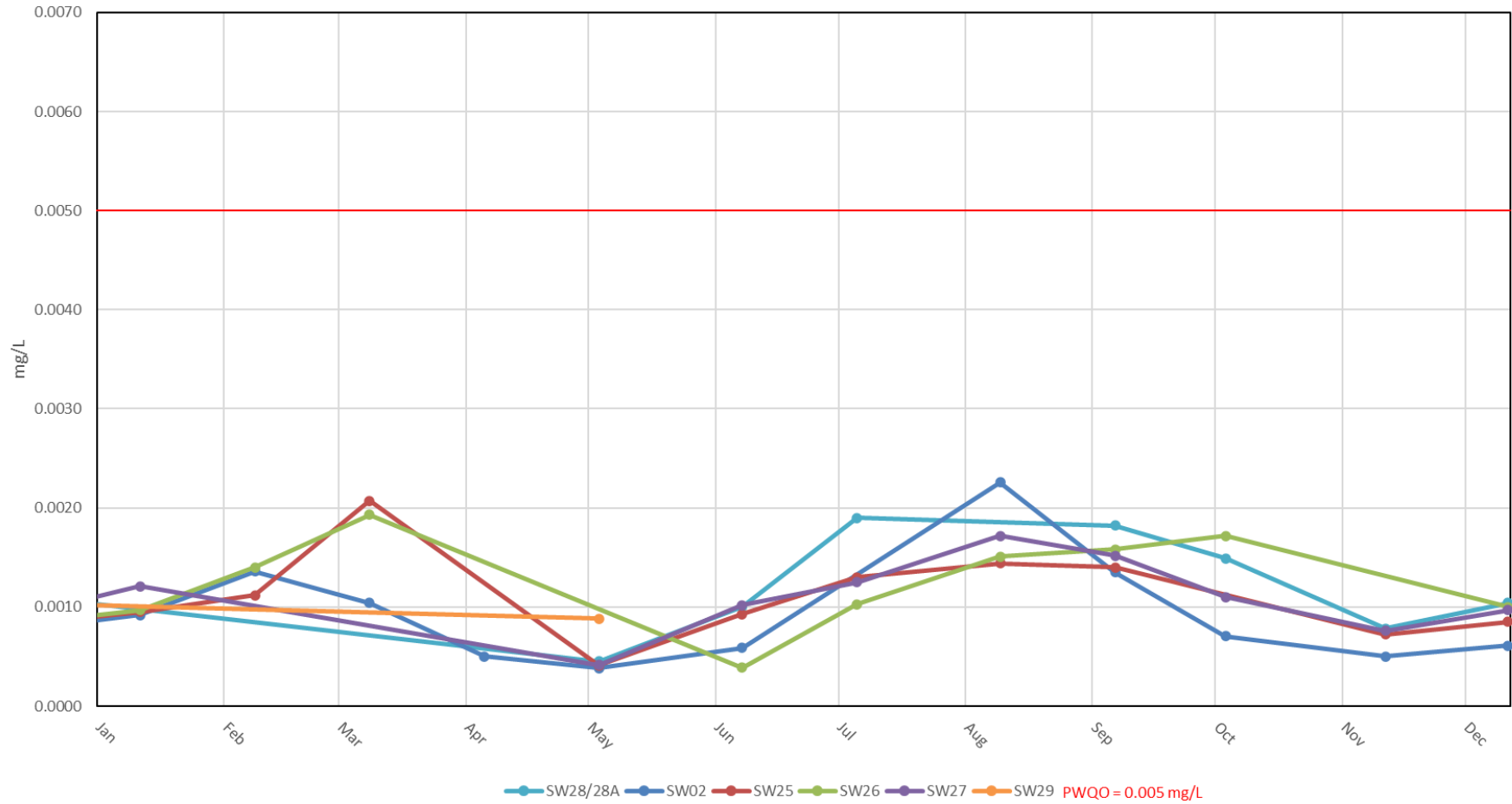


Figure 16a- Rainy River Mine, Total Copper in Area Creeks 2015-2022

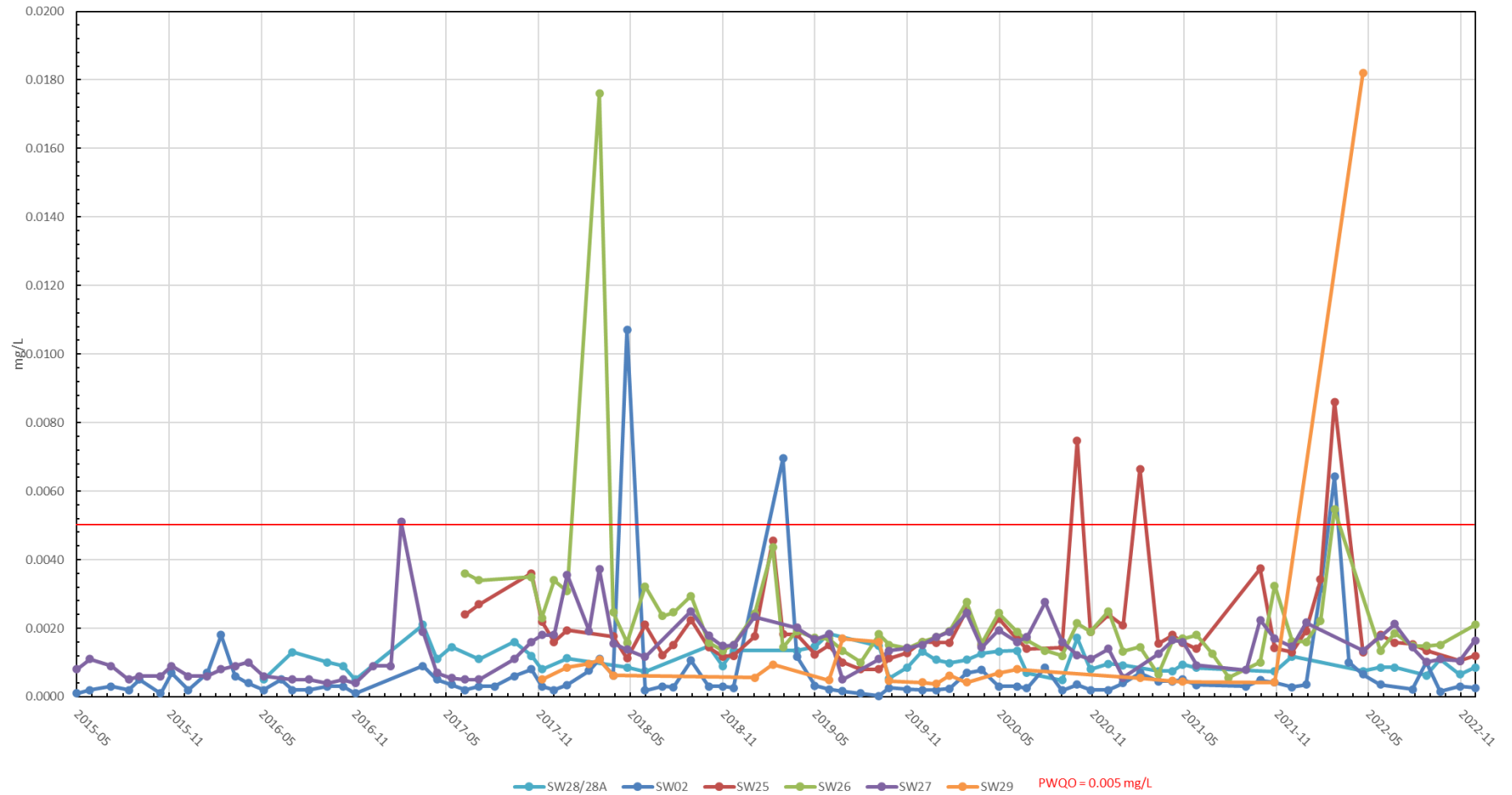


Figure 16b - Rainy River Mine, Total Copper in Area Creeks 2022

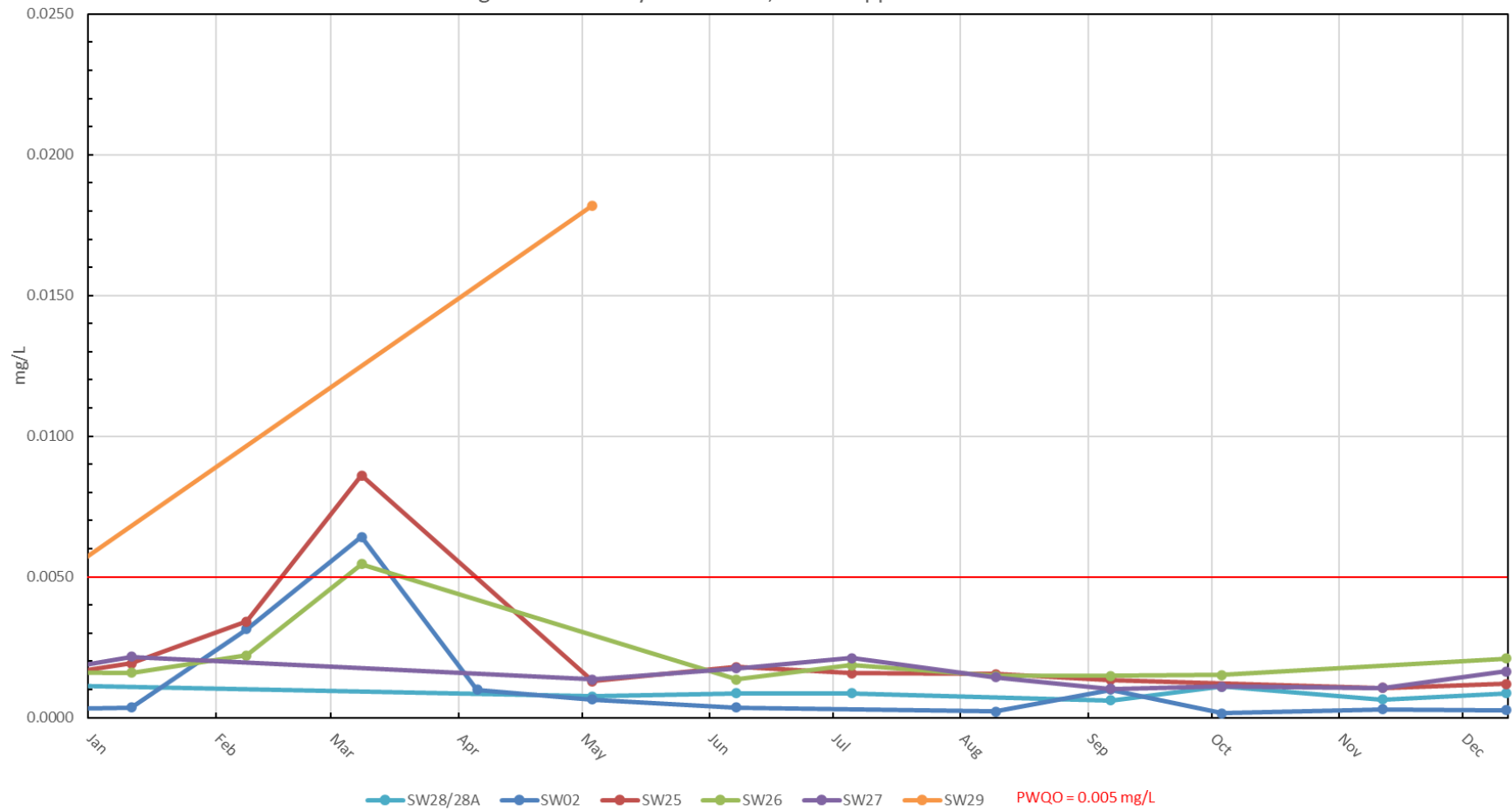


Figure 17a - Rainy River Mine, Total Lead in Area Creeks 2015-2022

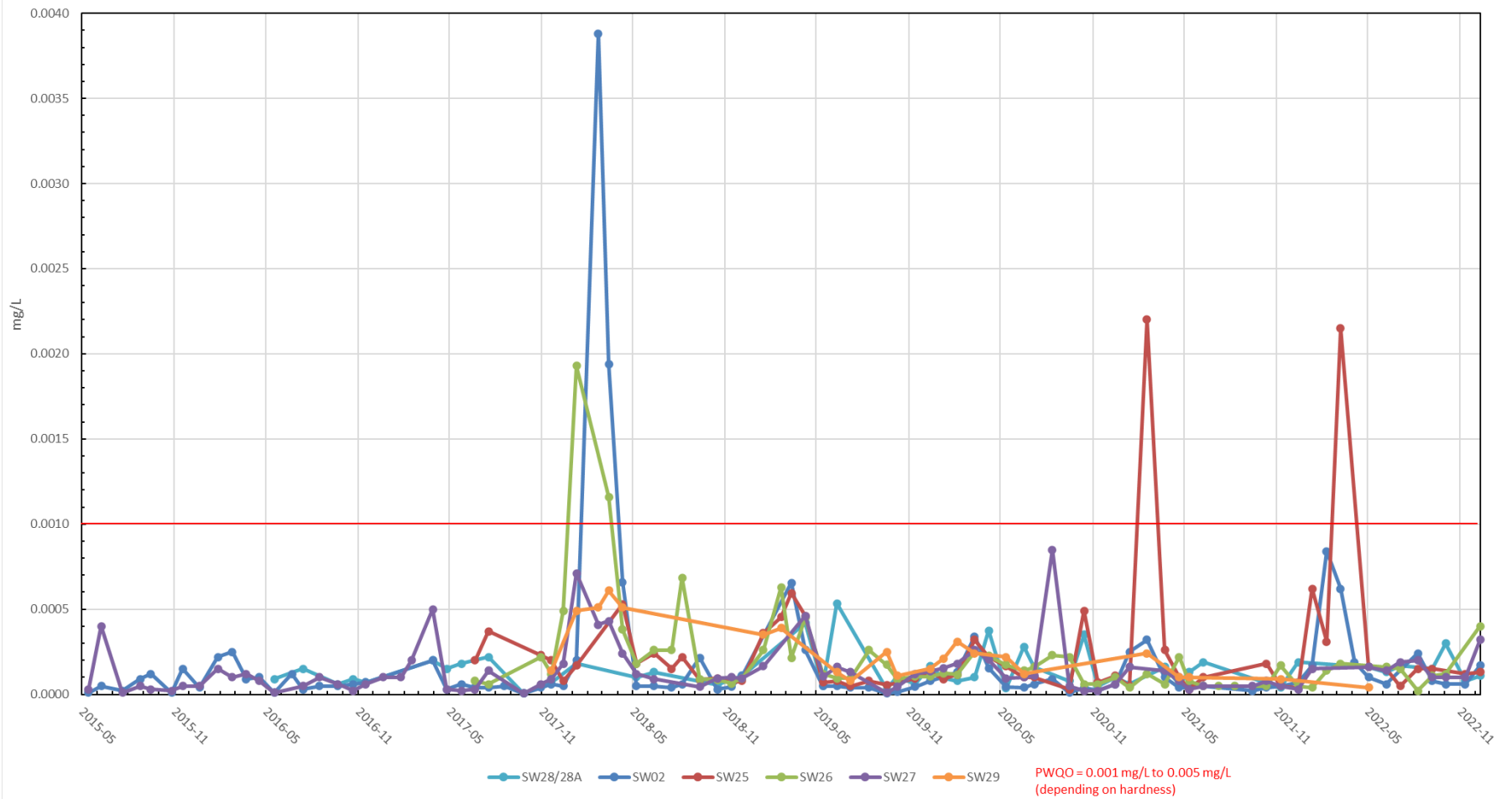


Figure 17b - Rainy River Mine, Total Lead in Area Creeks 2022

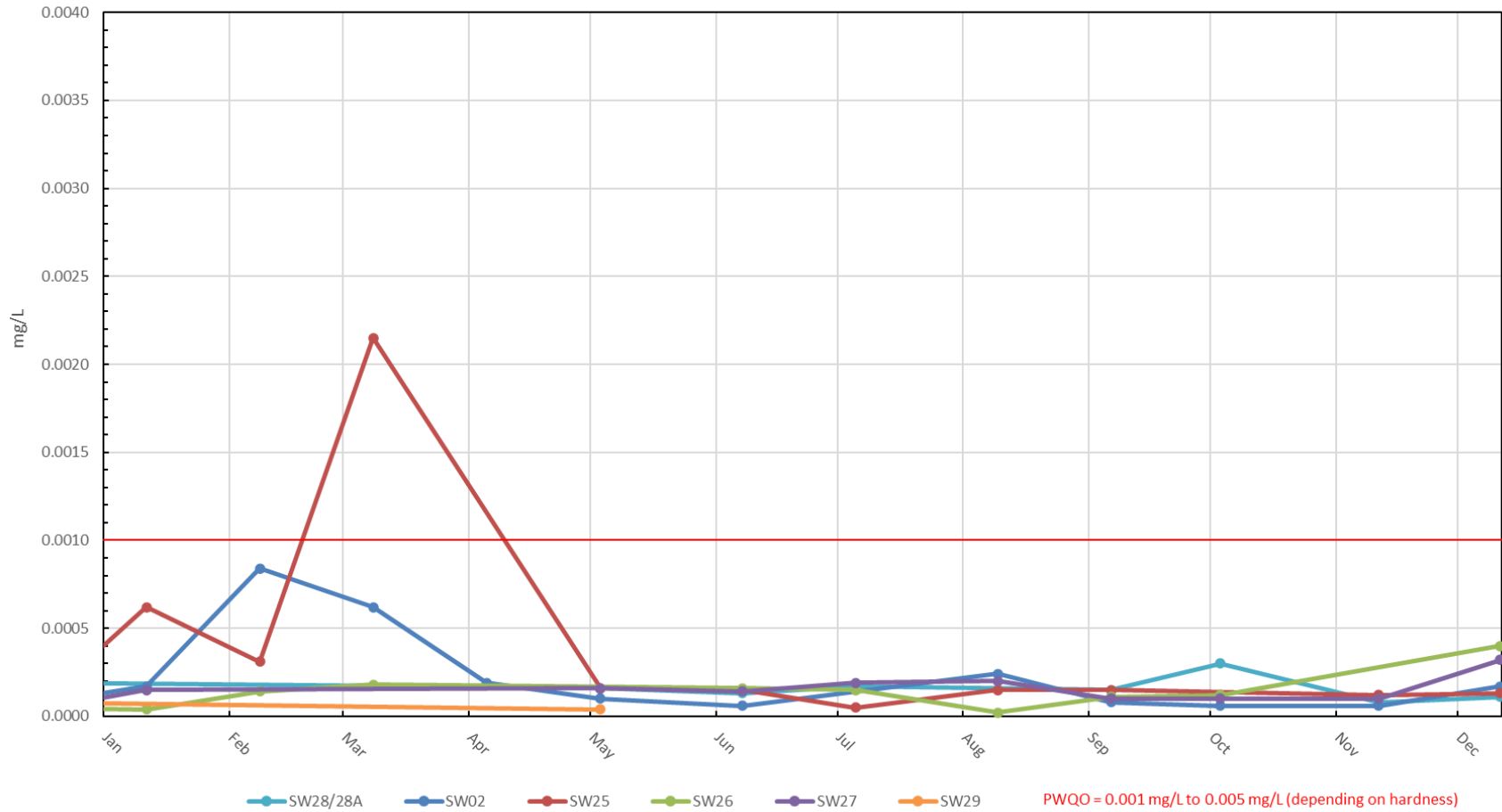


Figure 18a - Rainy River Mine, Total Nickel in Area Creeks 2015-2022

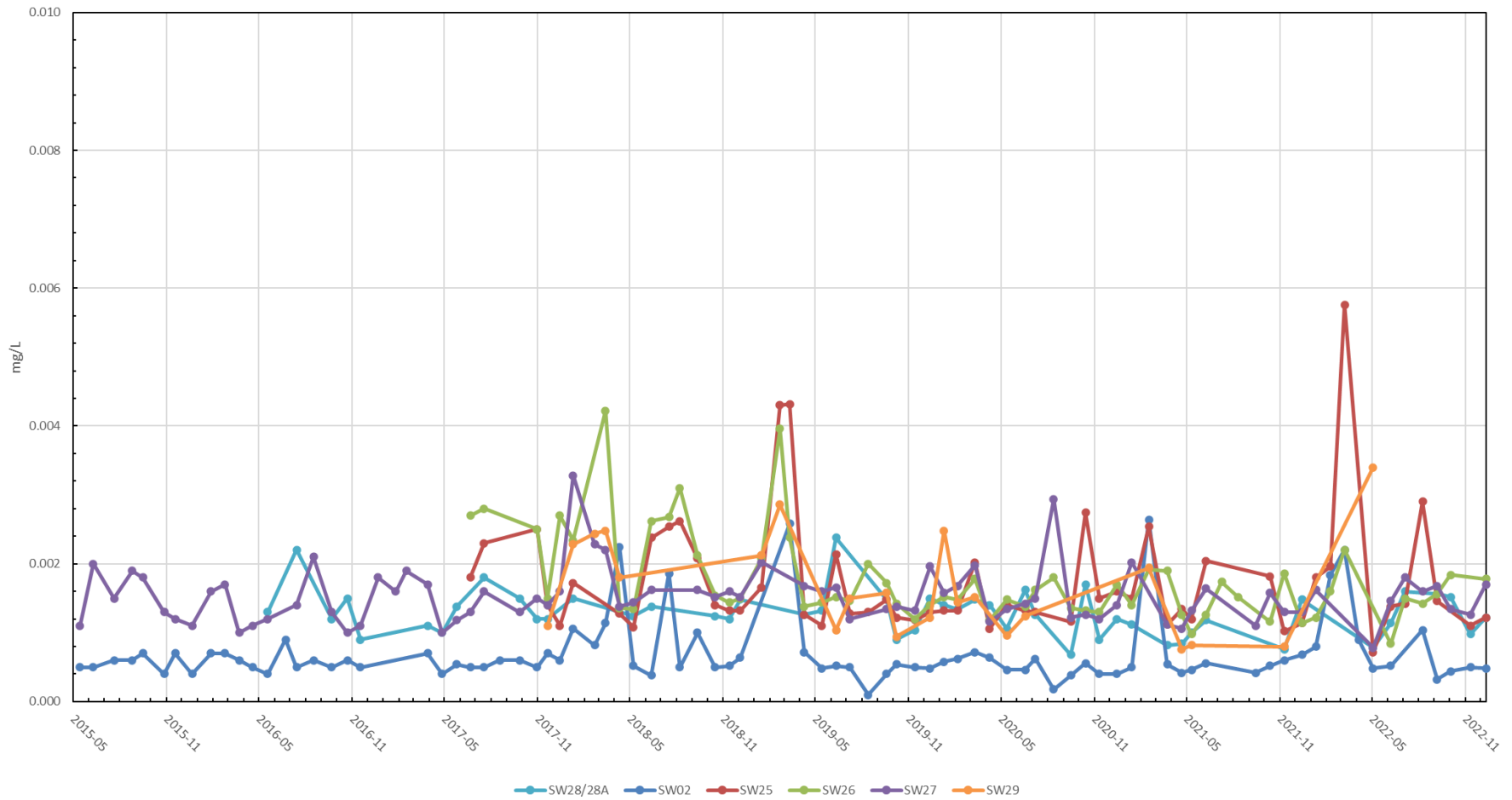


Figure 18b - Rainy River Mine, Total Nickel in Area Creeks 2022

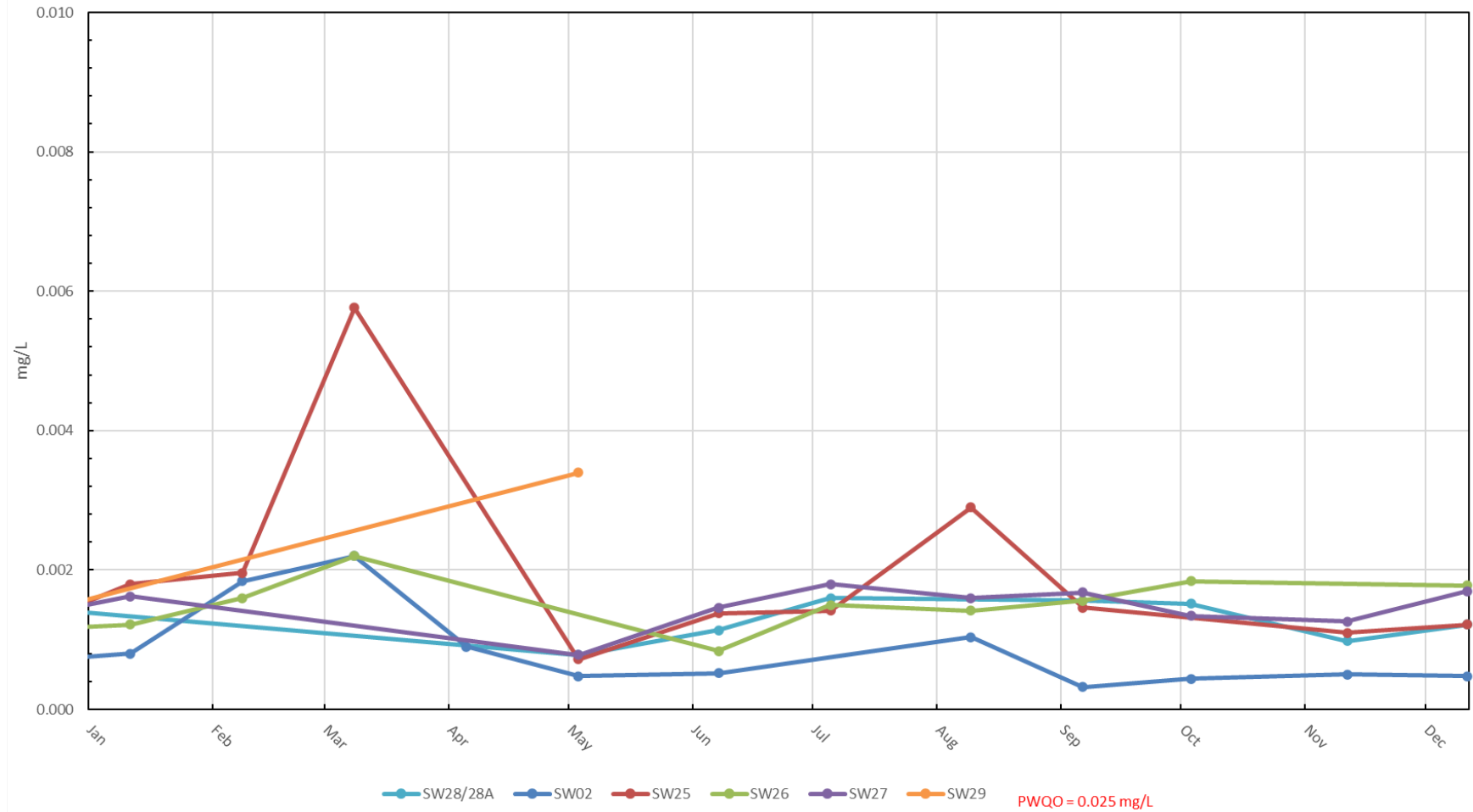


Figure 19a - Rainy River Mine, Total Phosphorus in Area Creeks 2017-2022

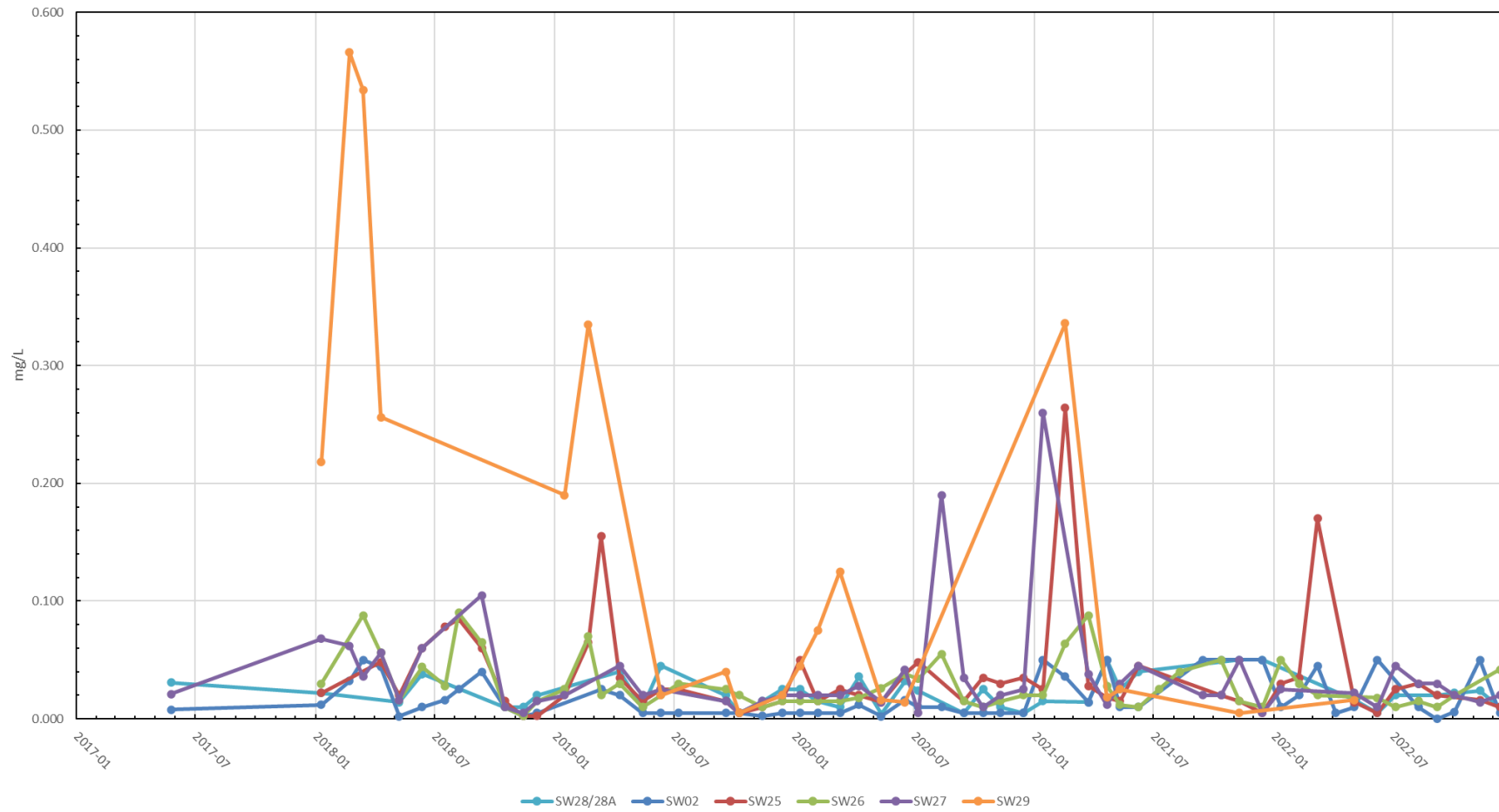


Figure 19b - Rainy River Mine, Total Phosphorus in Area Creeks 2022

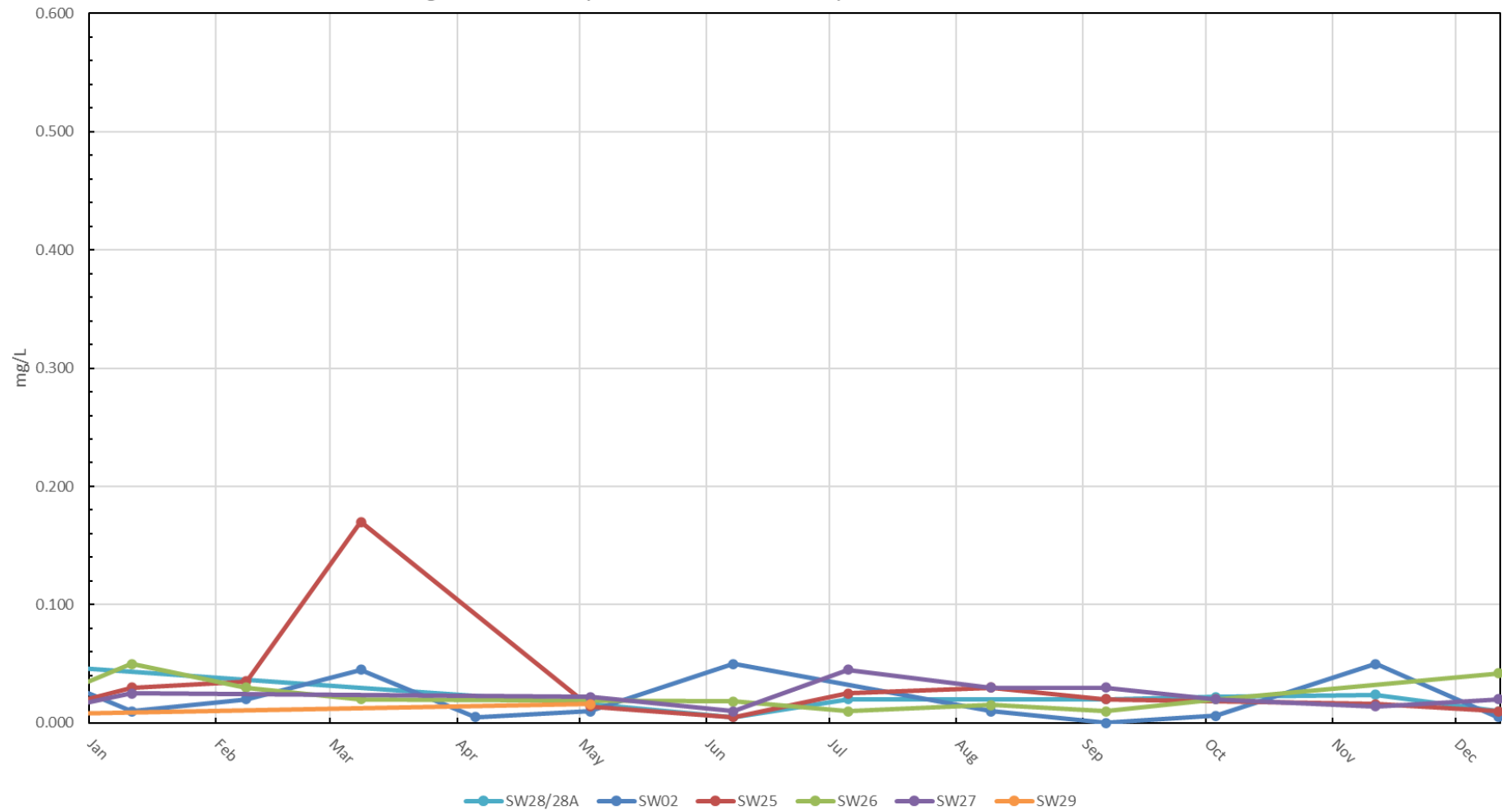


Figure 20a - Rainy River Mine, Total Zinc in Area Creeks 2015-2022

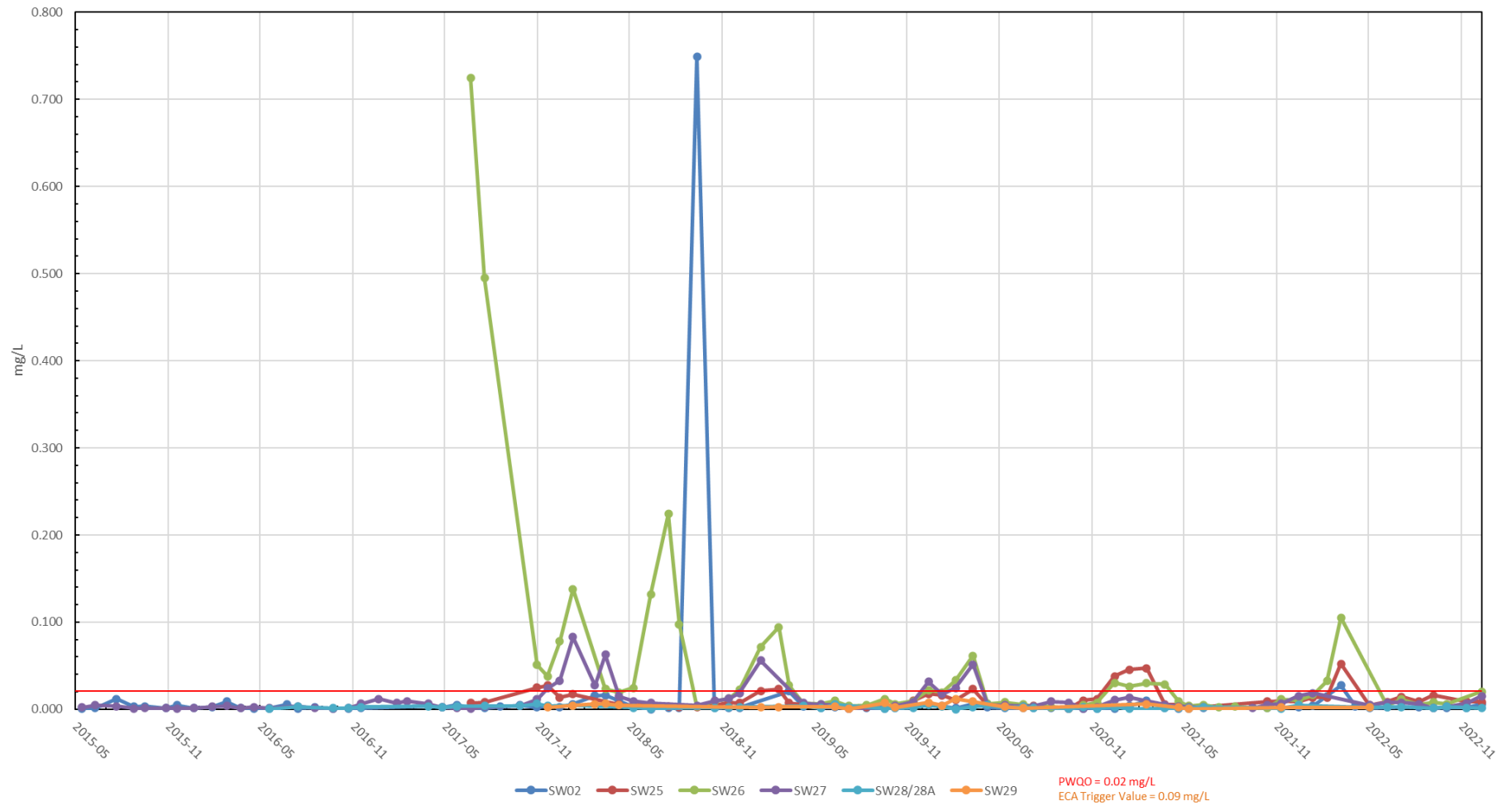


Figure 20b - Rainy River Mine, Total Zinc in Area Creeks 2022

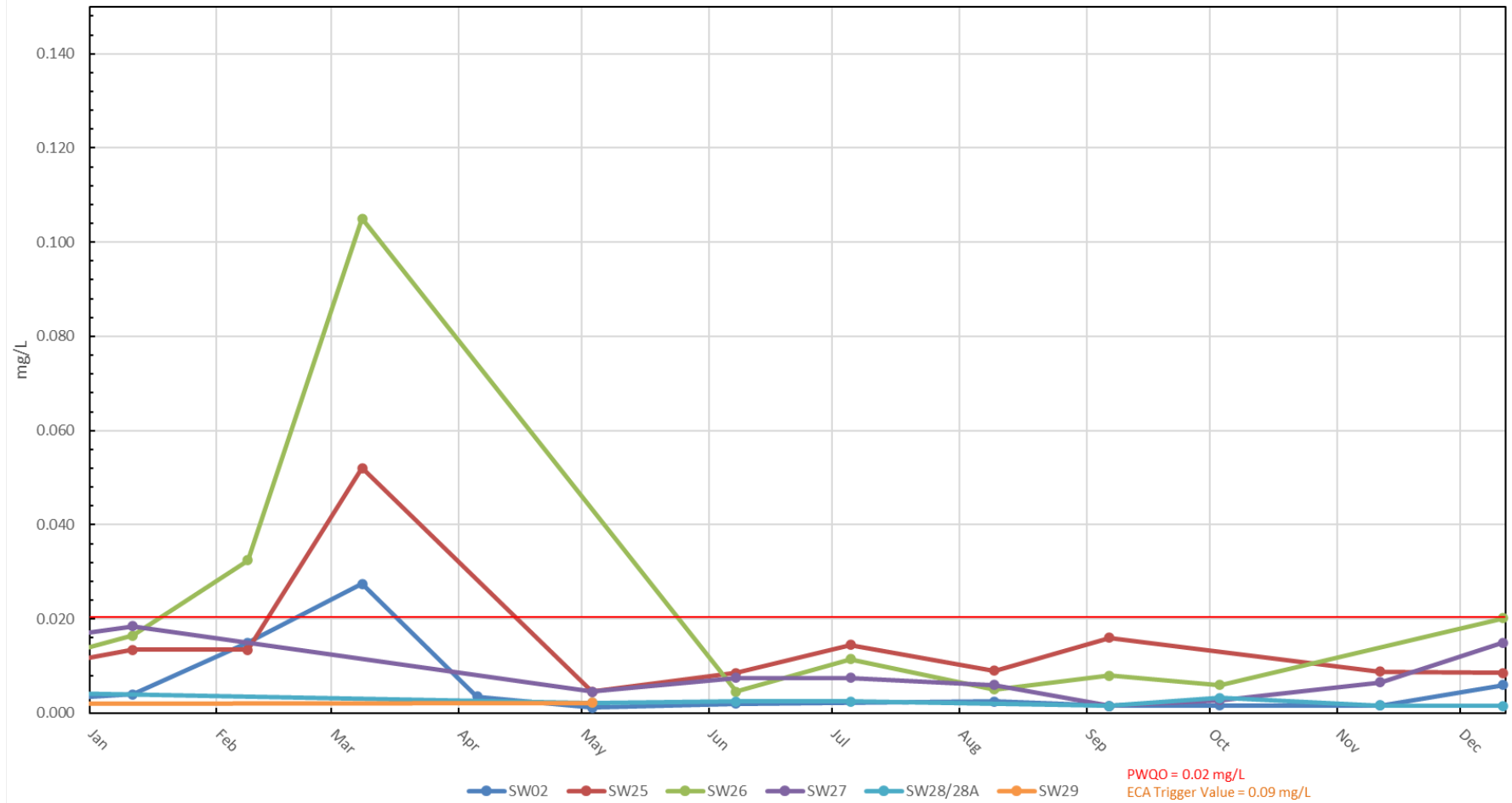


Figure 21a - Rainy River Mine, Total Mercury in Area Creeks 2015-2022

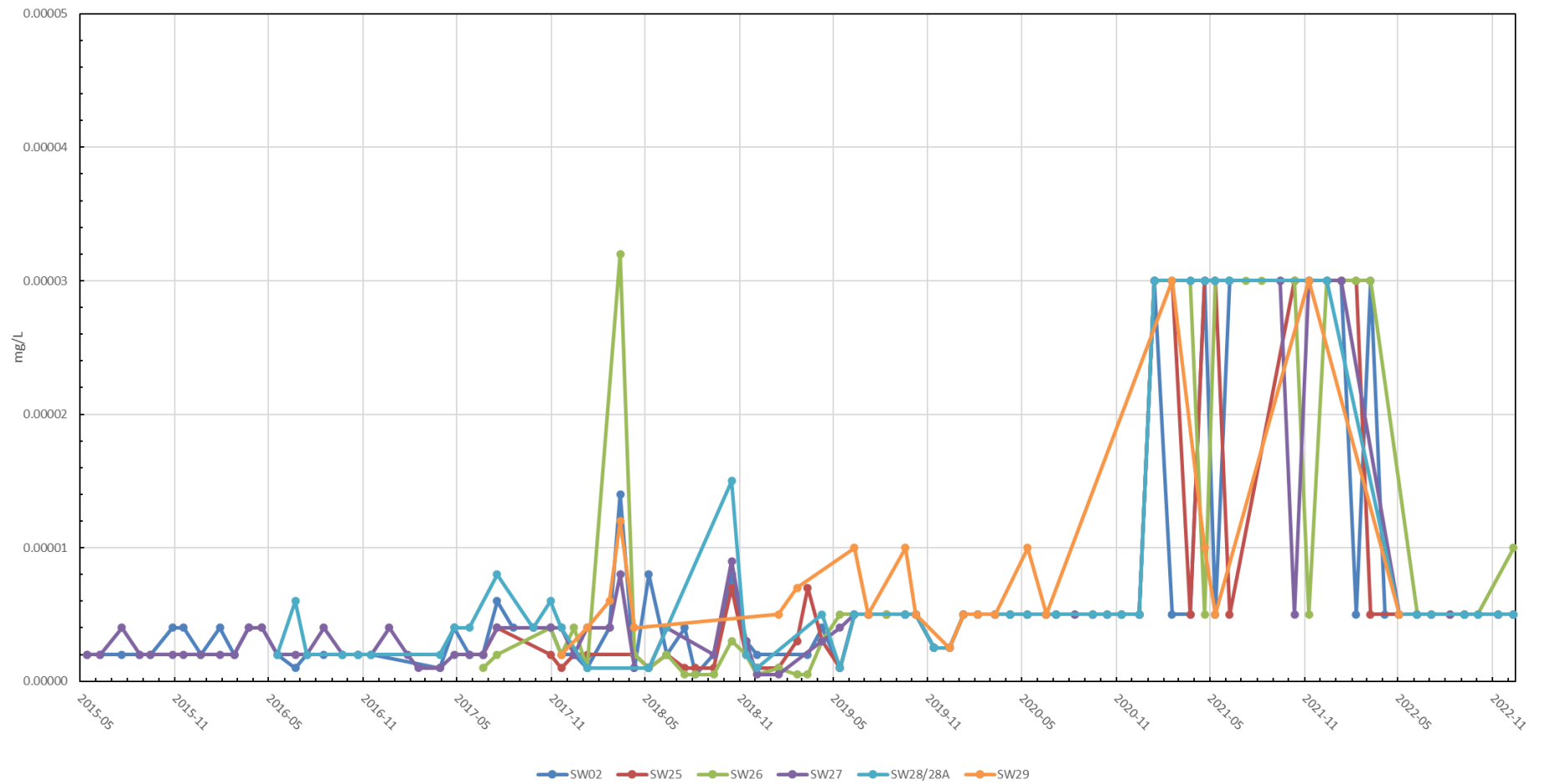


Figure 21b - Rainy River Mine, Total Mercury in Area Creeks 2022

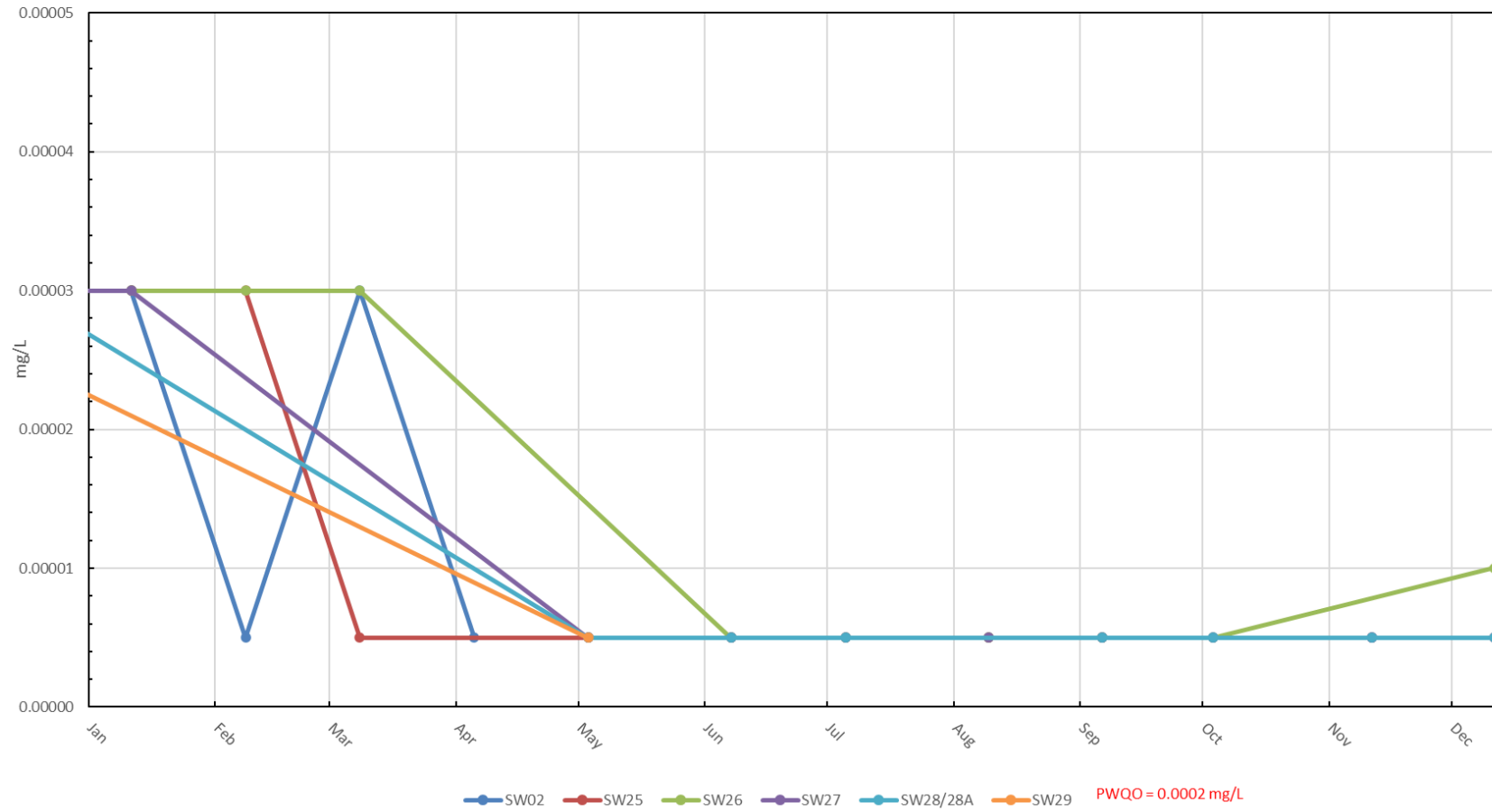


Figure 22a - Rainy River Mine, Un-ionized Ammonia in Area Creeks 2015-2022

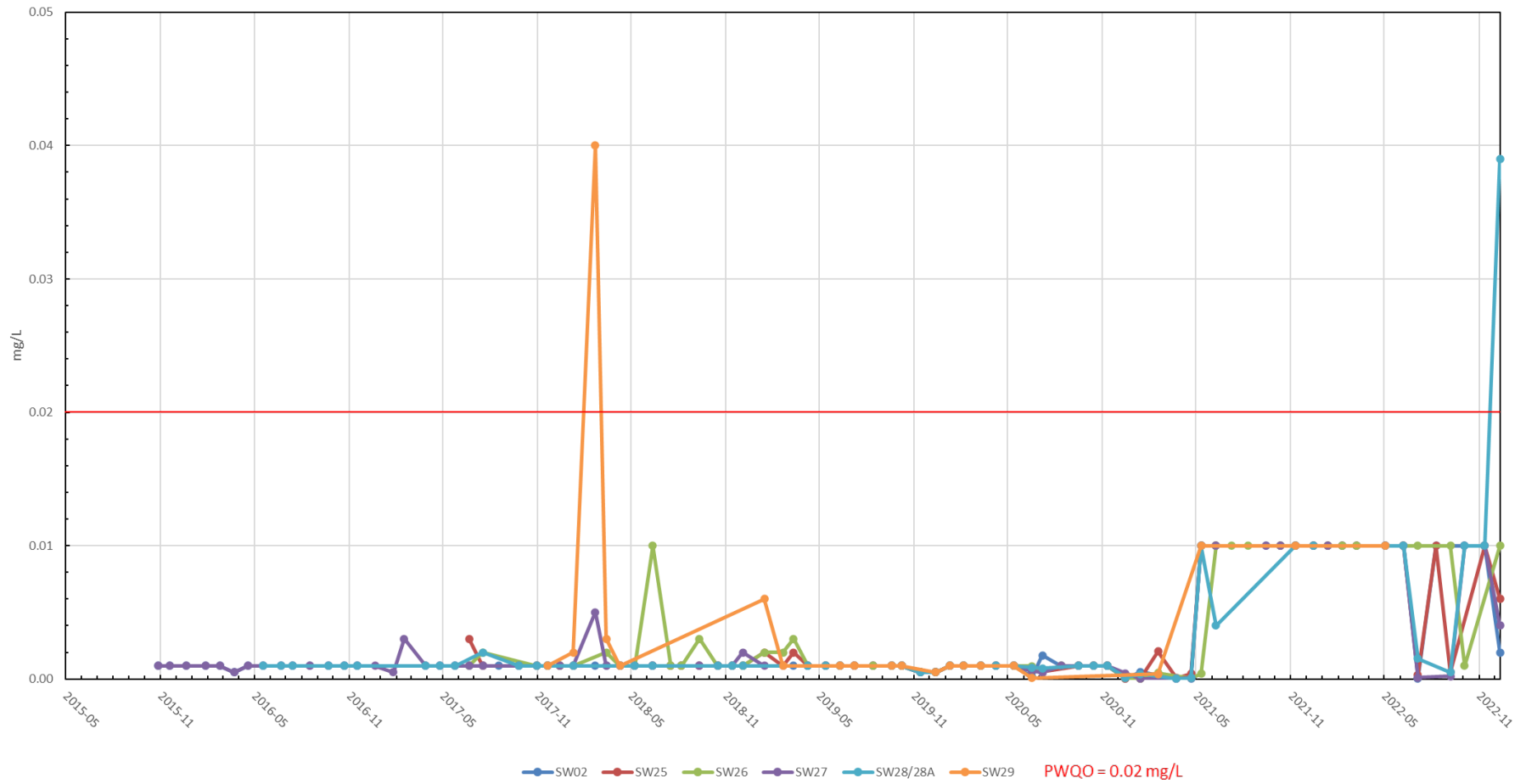


Figure 22b - Rainy River Mine, Un-ionized Ammonia in Area Creeks 2022

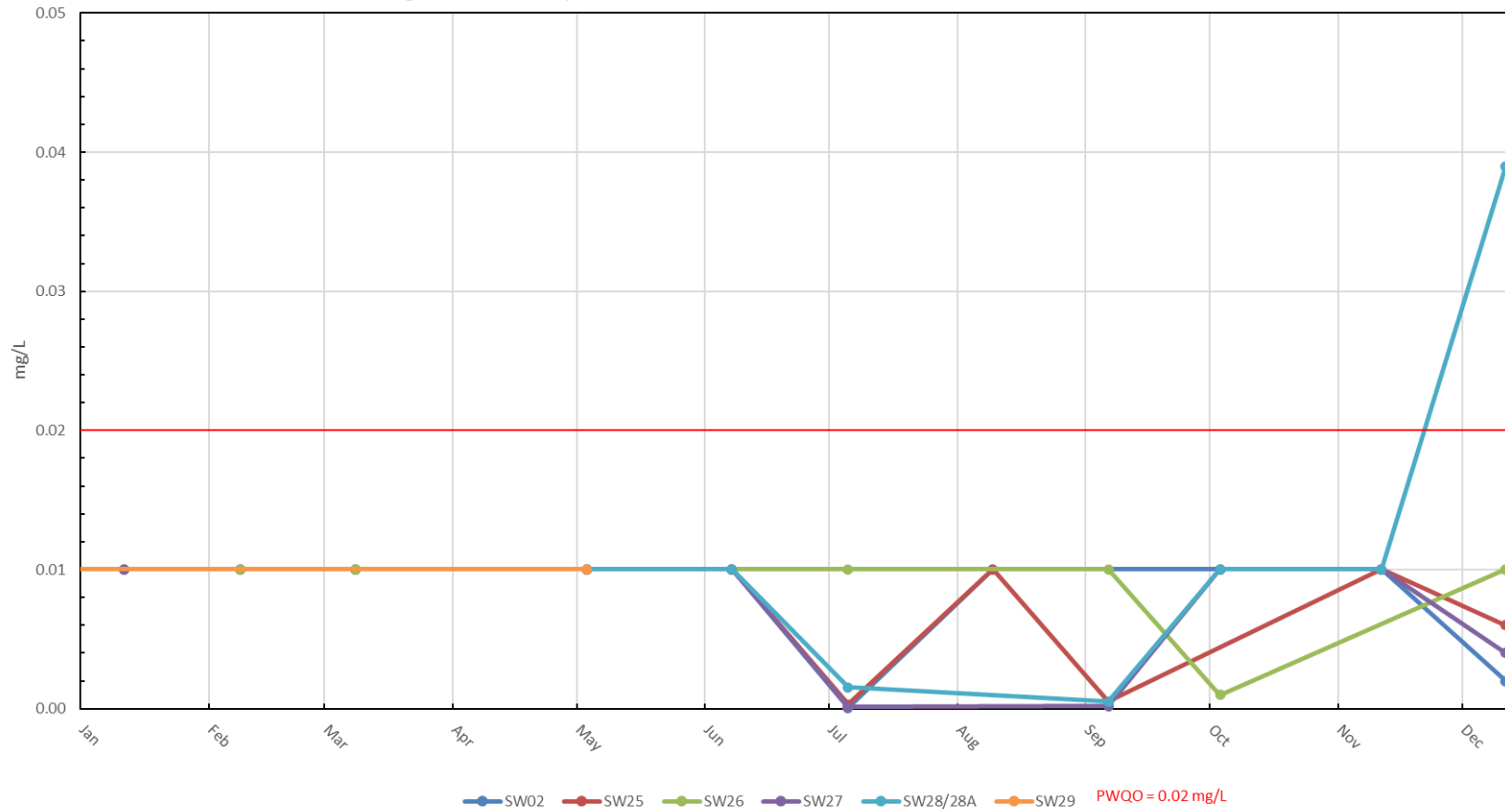


Figure 23a - Rainy River Mine, Free Cyanide in Area Creeks 2018-2022

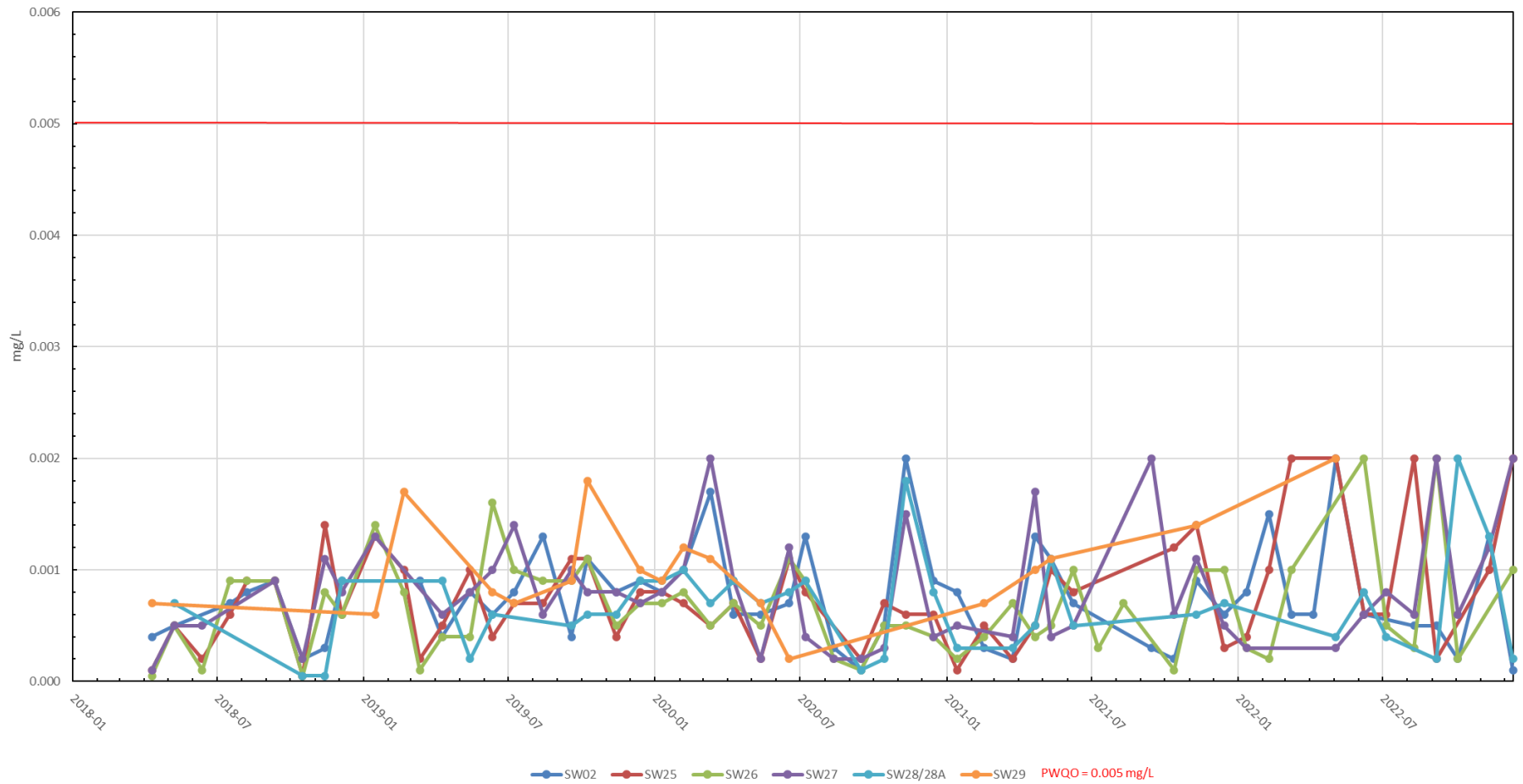


Figure 23b - Rainy River Mine, Free Cyanide in Area Creeks 2022

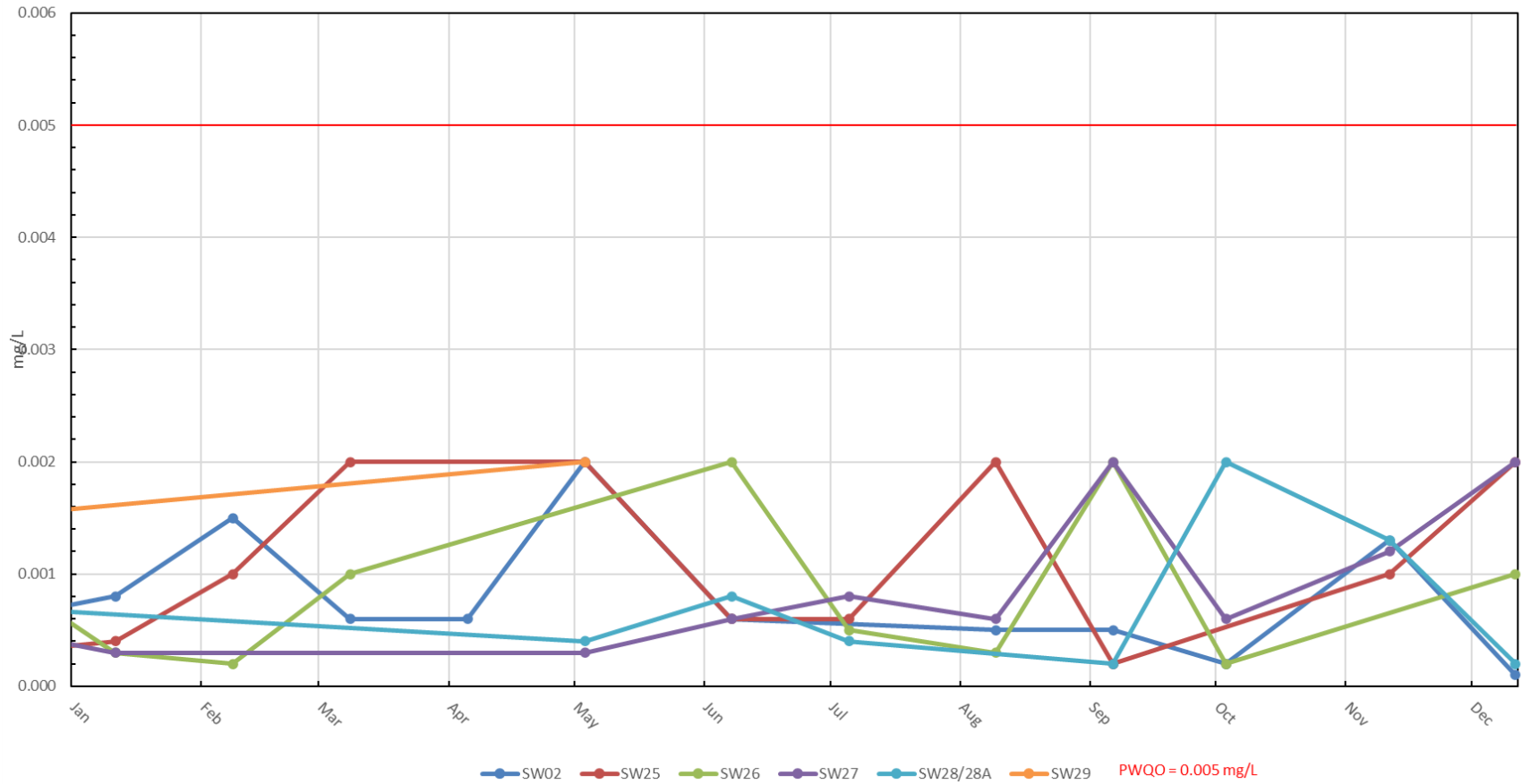


Figure 24a - Rainy River Mine, Field pH Levels in Rainy River 2015-2022

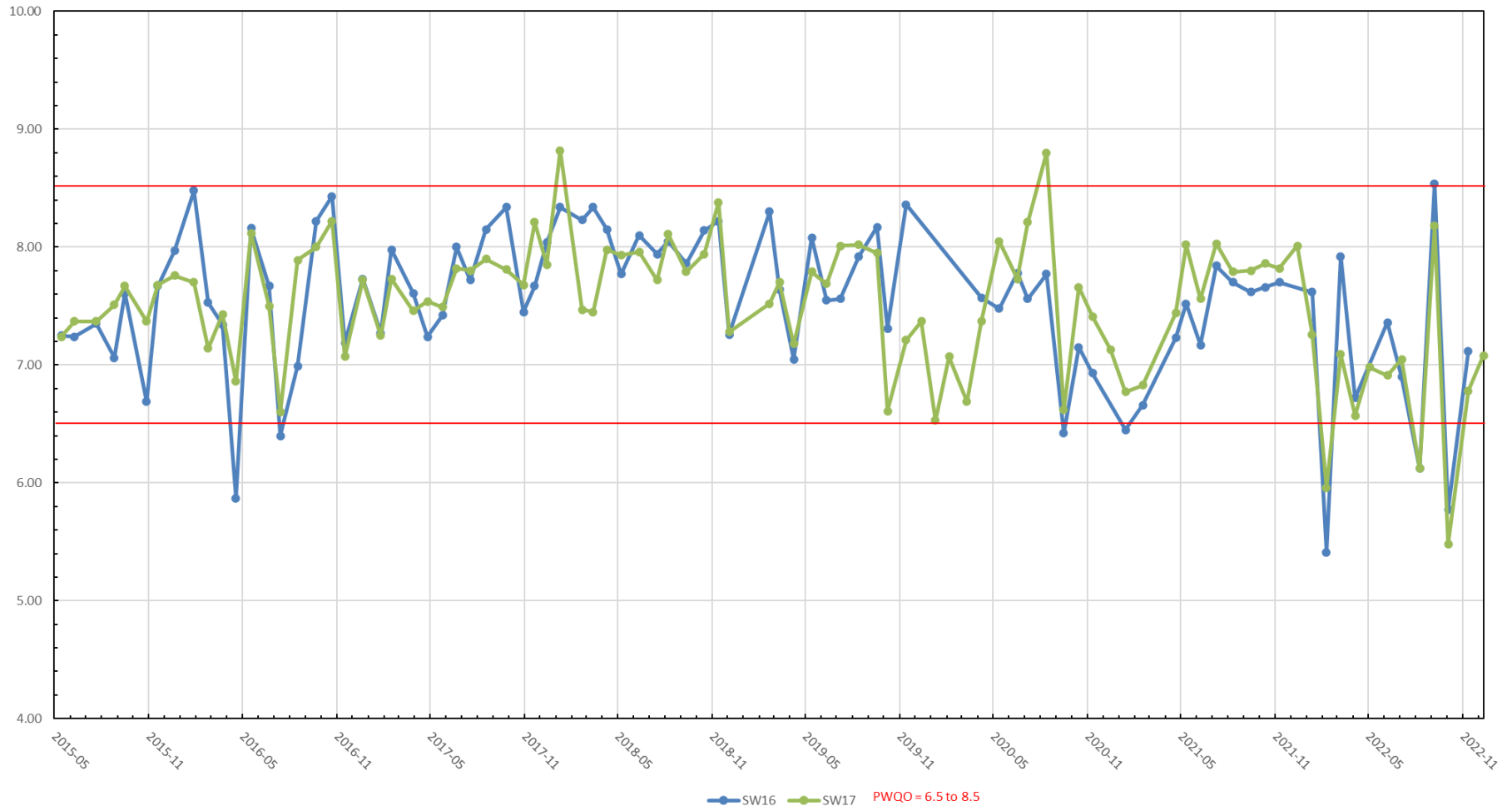


Figure 24b - Rainy River Mine, Field pH Levels in Rainy River 2022

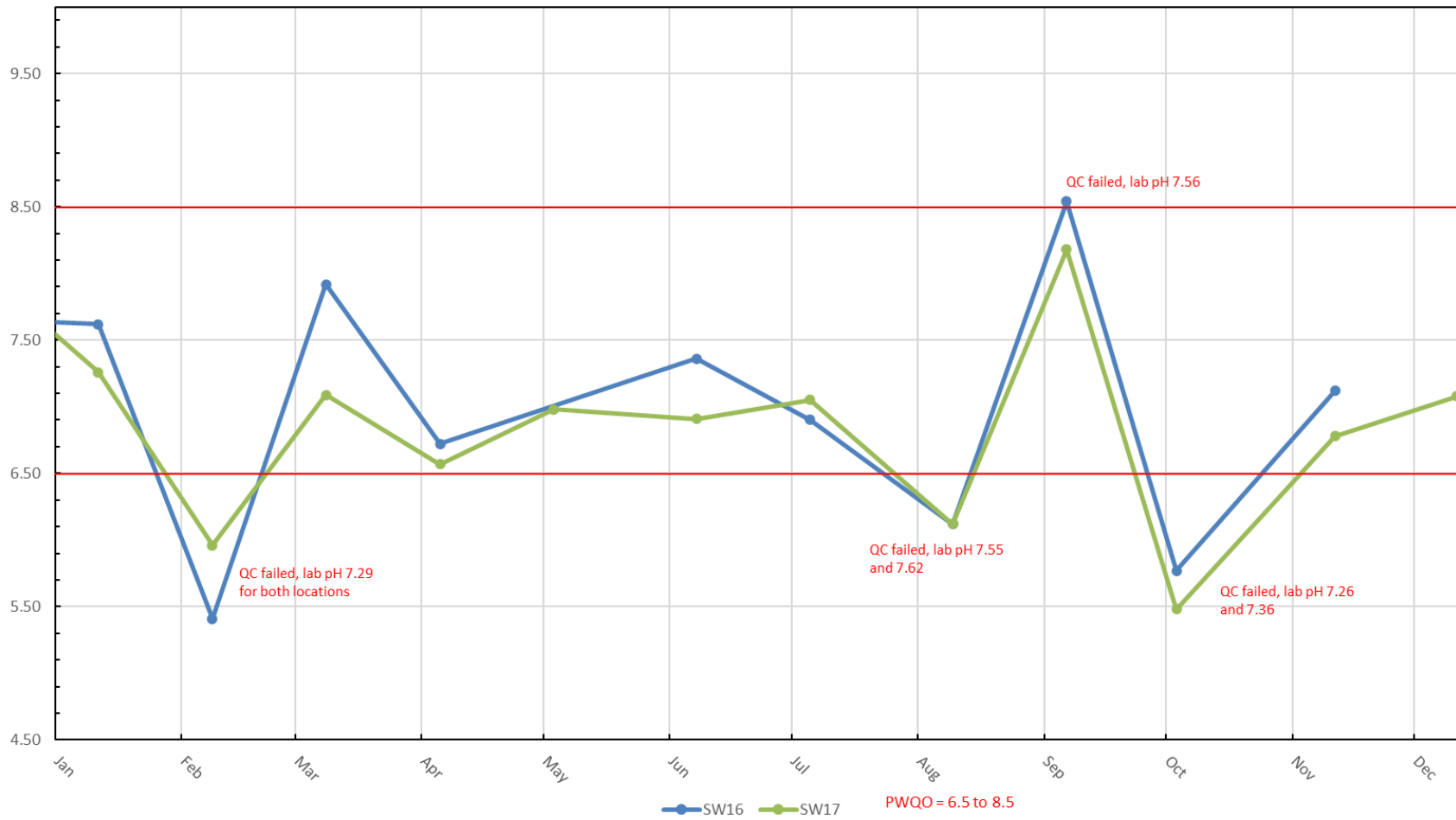


Figure 25a - Rainy River Mine, Total Suspended Solids Concentration in Rainy River 2015-2022

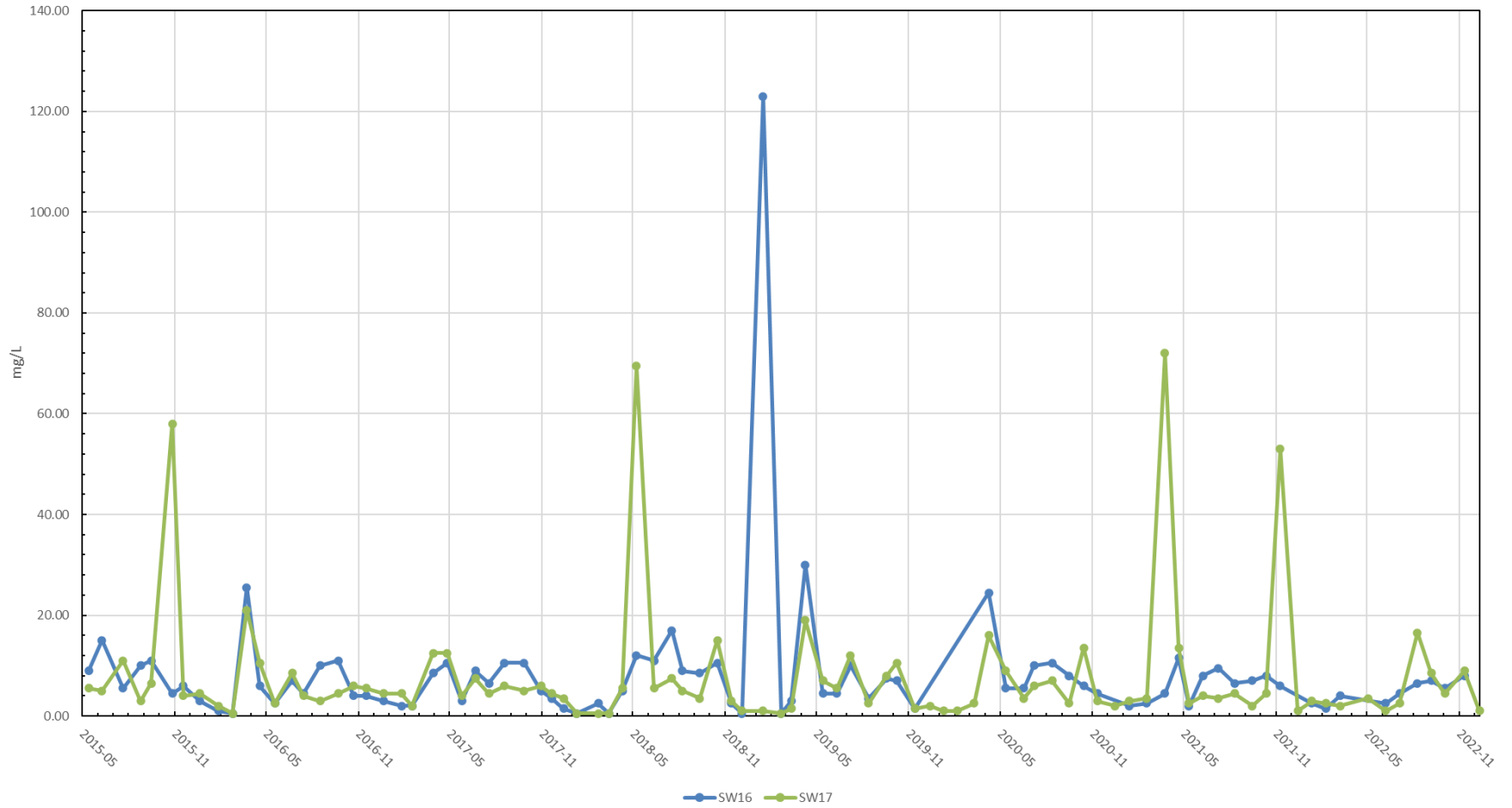


Figure 25b - Rainy River Mine, Total Suspended Solids Concentration in Rainy River 2022

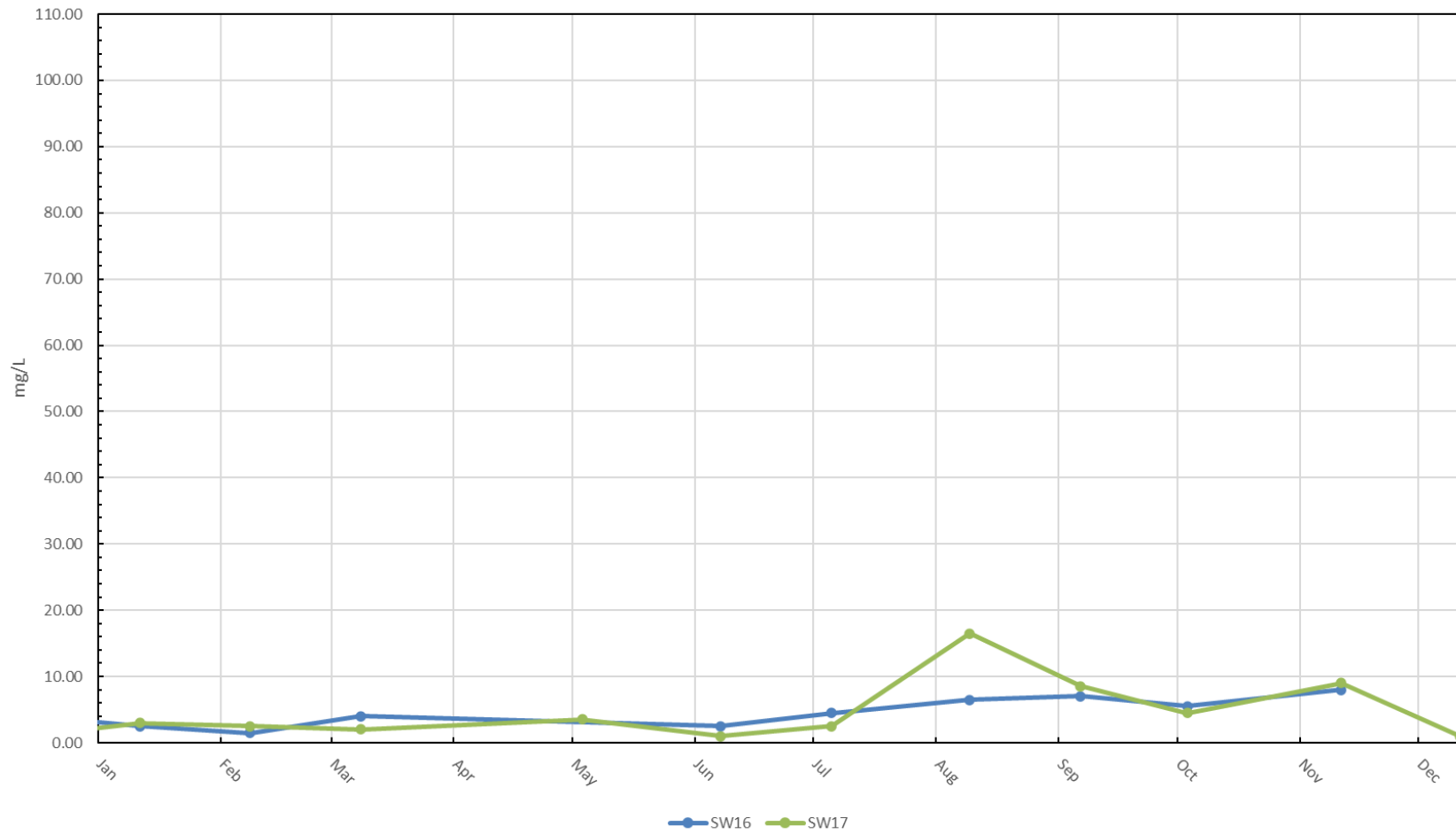


Figure 26a - Rainy River Mine, Total Arsenic in Rainy River 2015-2022

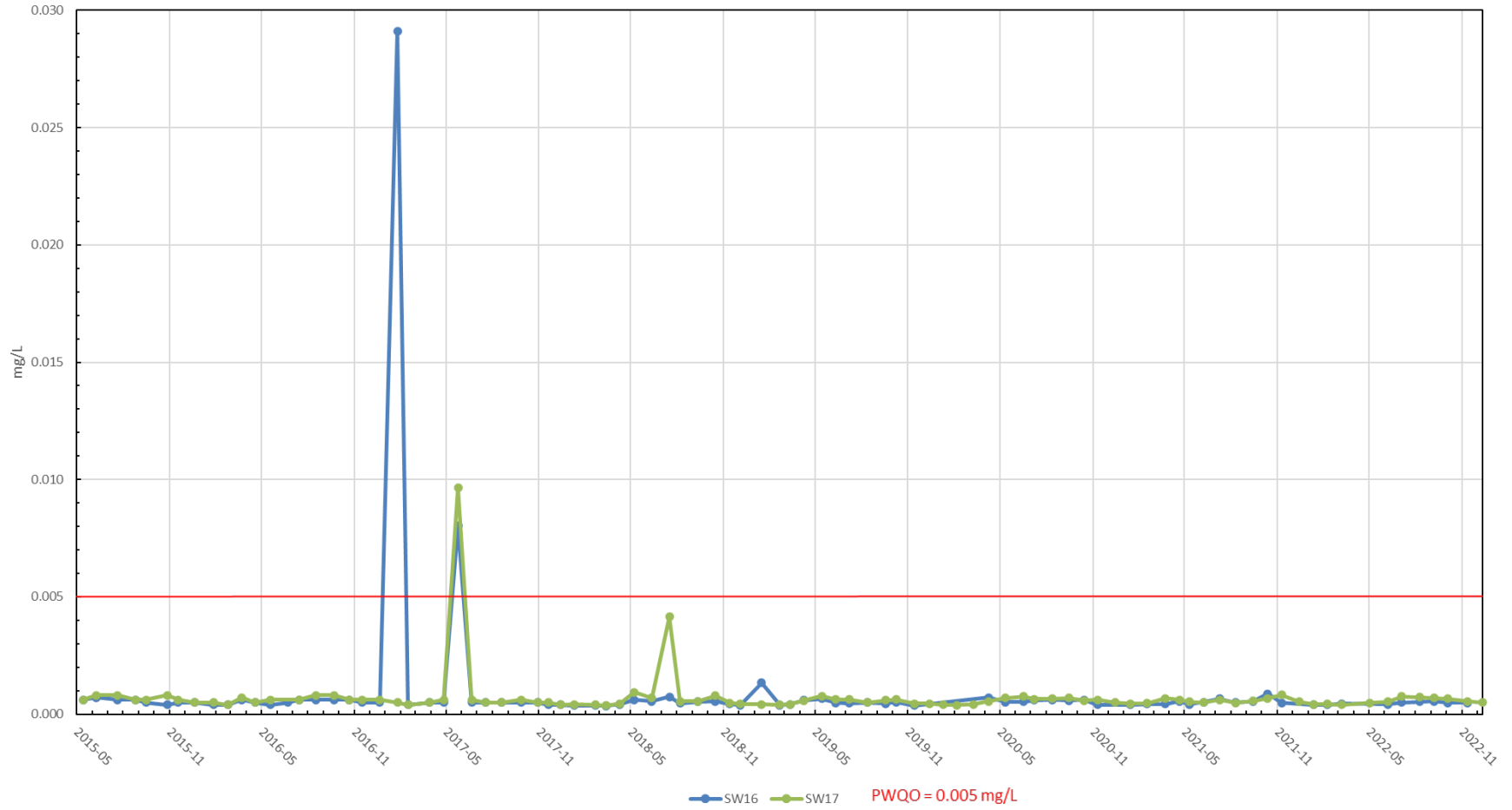


Figure 26b - Rainy River Mine, Total Arsenic in Rainy River 2022

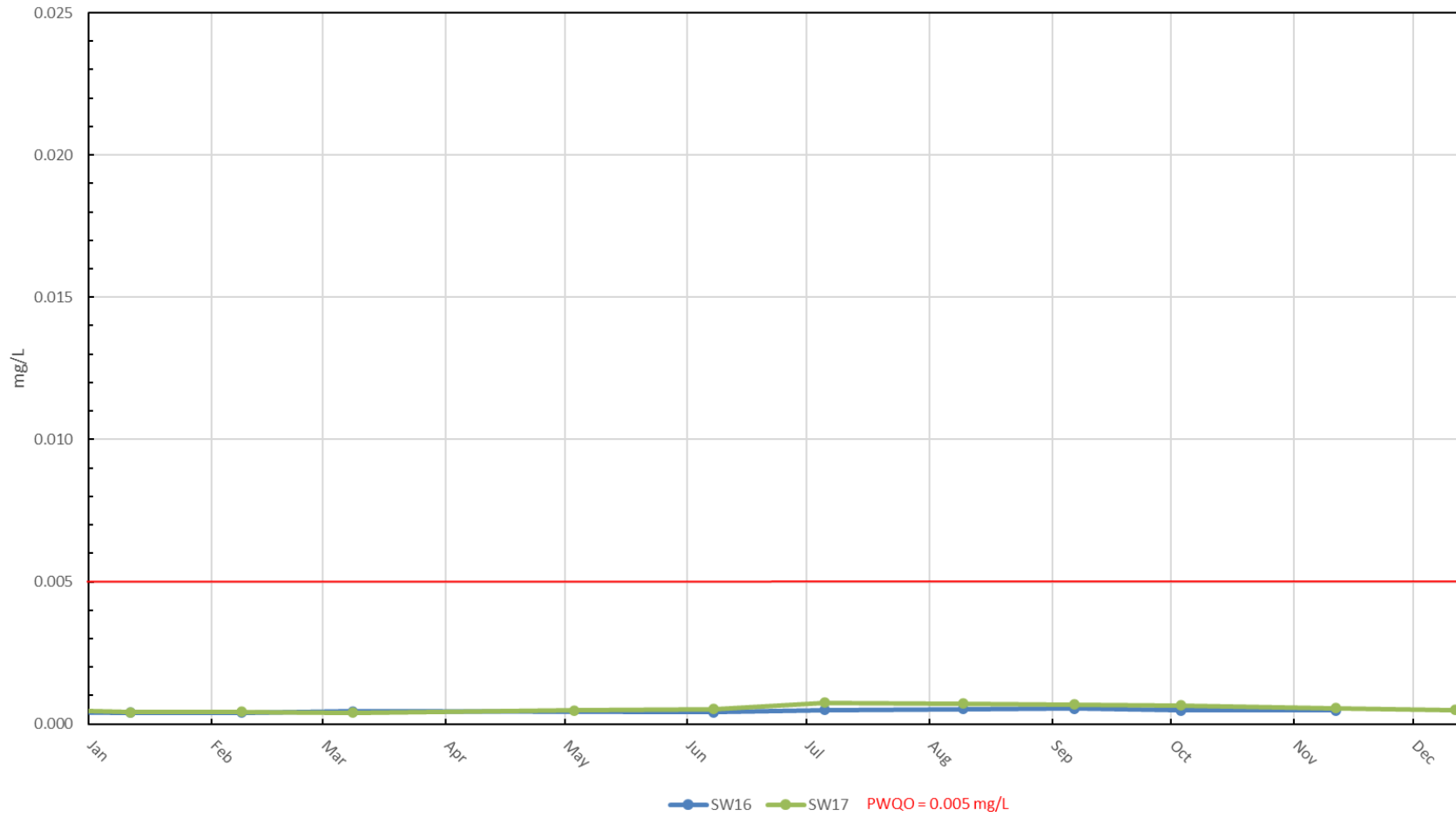


Figure 27a - Rainy River Mine, Total Copper in Rainy River 2015-2022

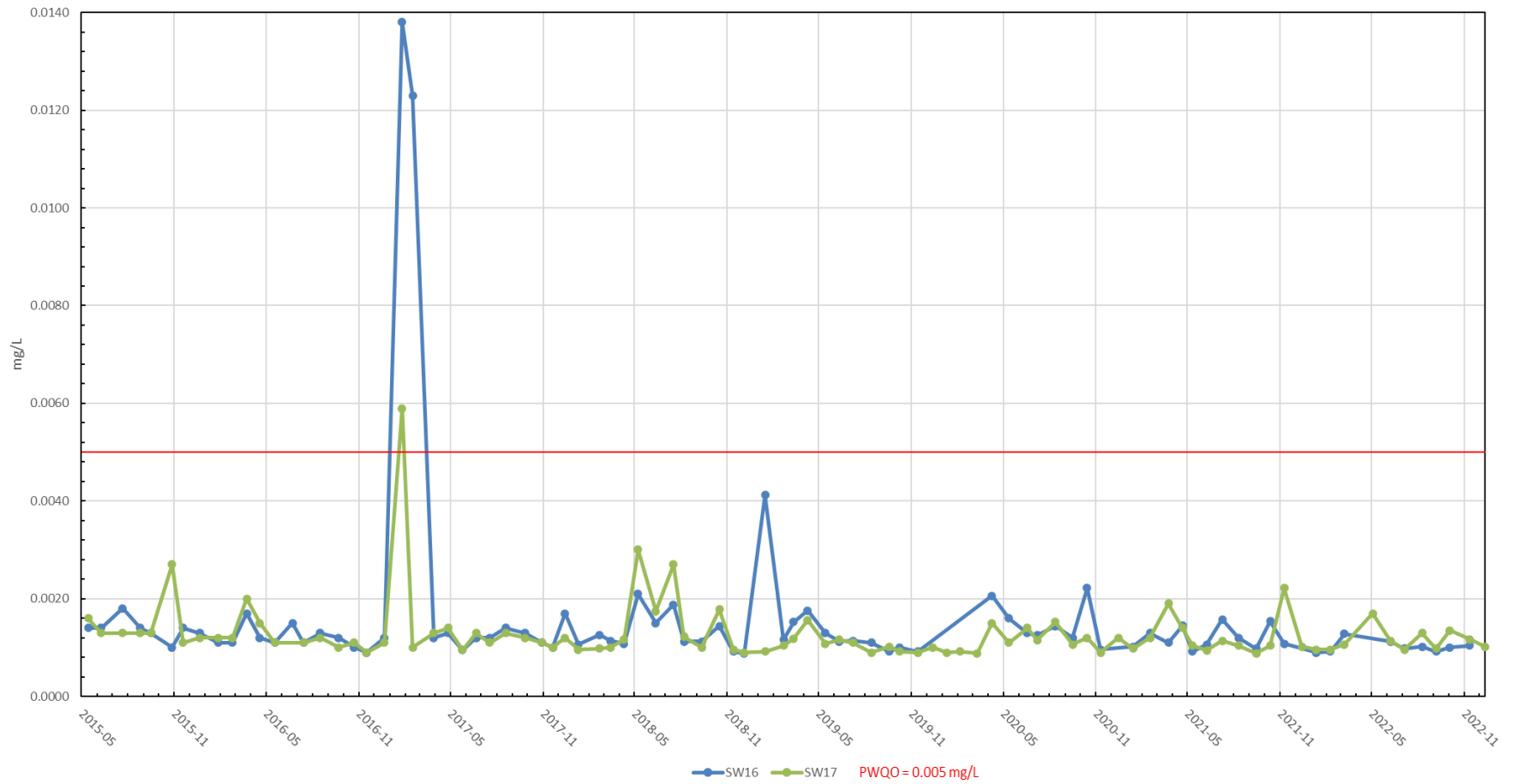


Figure 27b - Rainy River Mine, Total Copper in Rainy River 2022

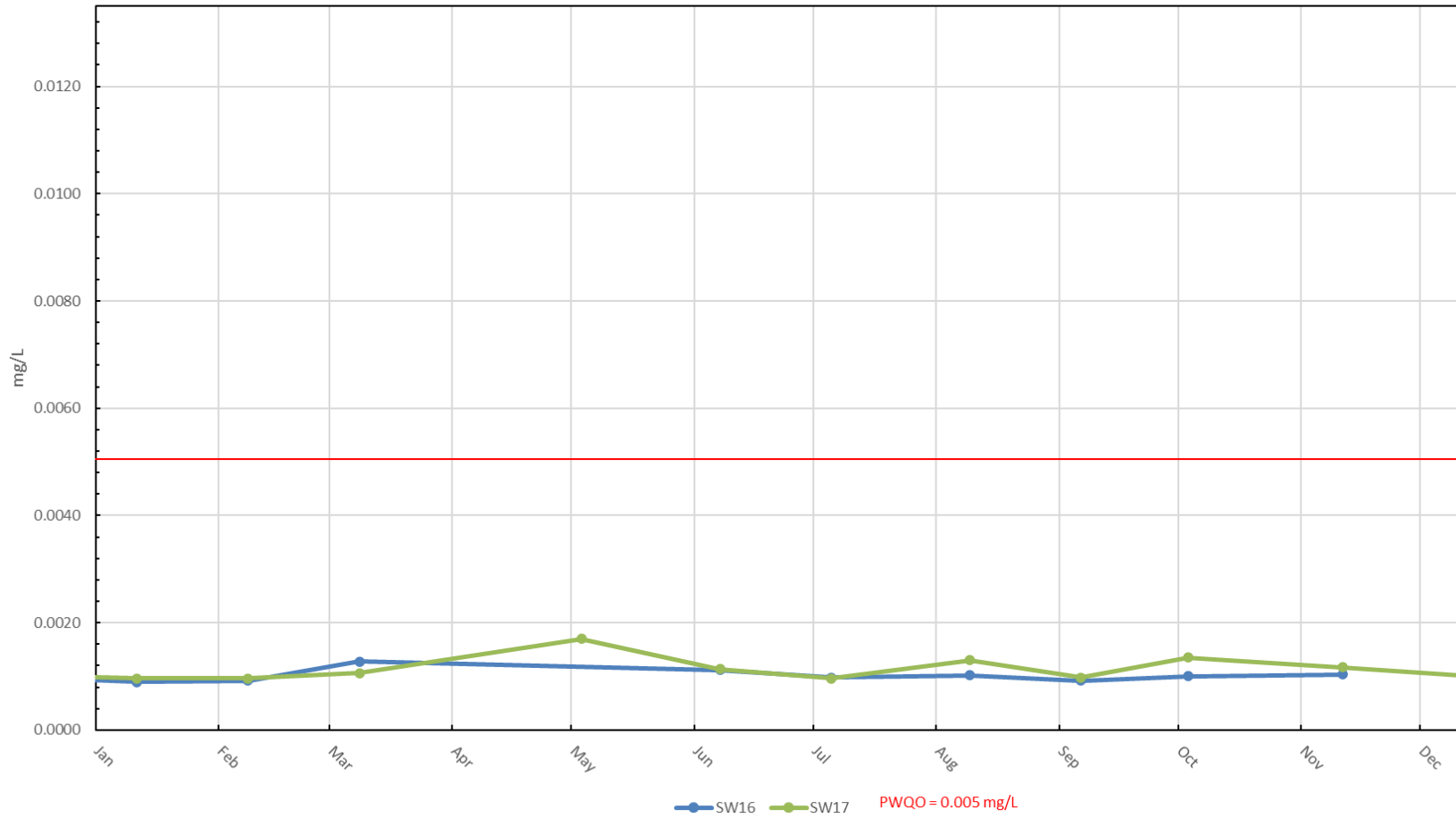


Figure 28a - Rainy River Mine, Total Lead in Rainy River 2015-2022

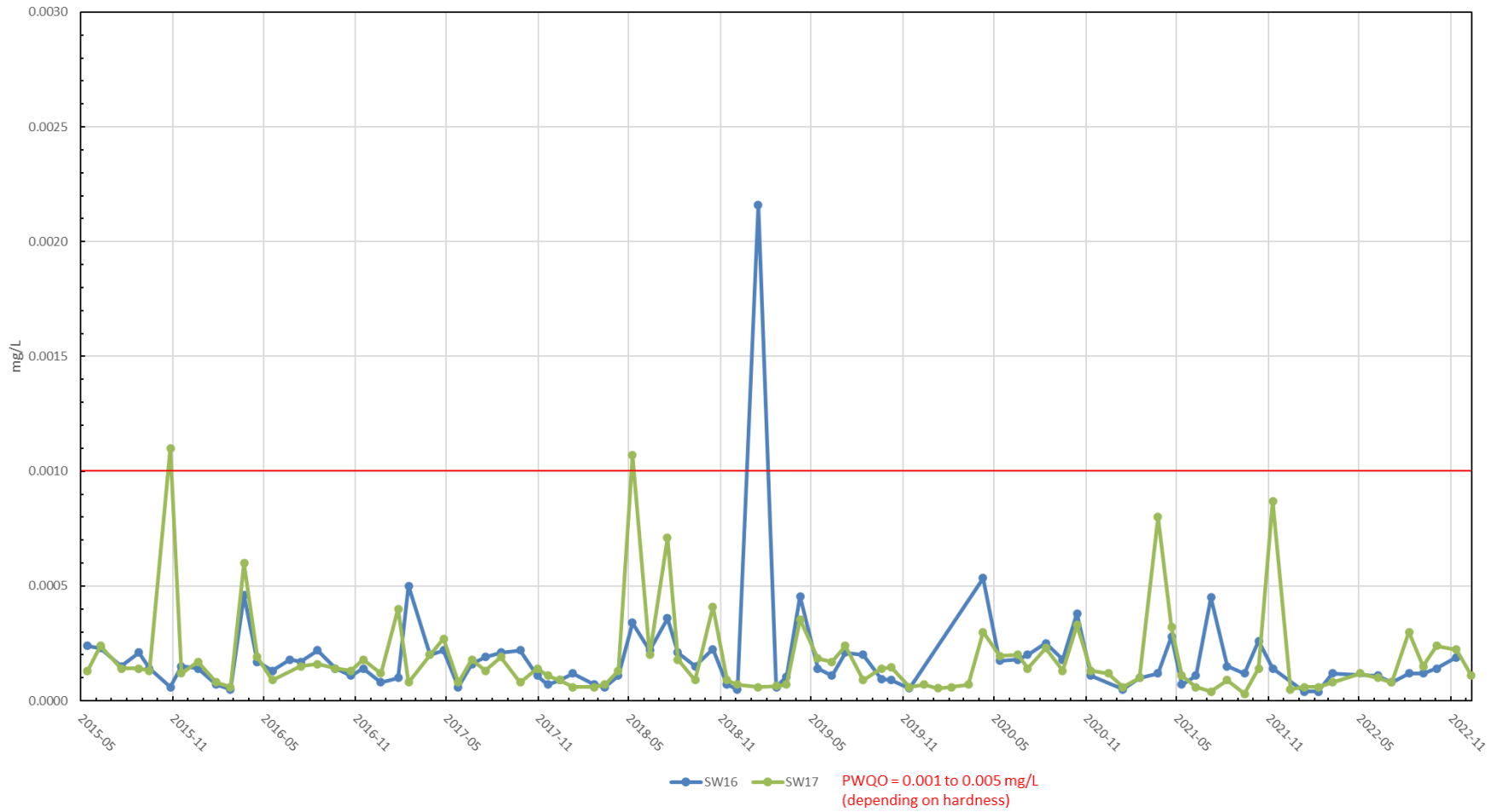


Figure 28b - Rainy River Mine, Total Lead in Rainy River 2022

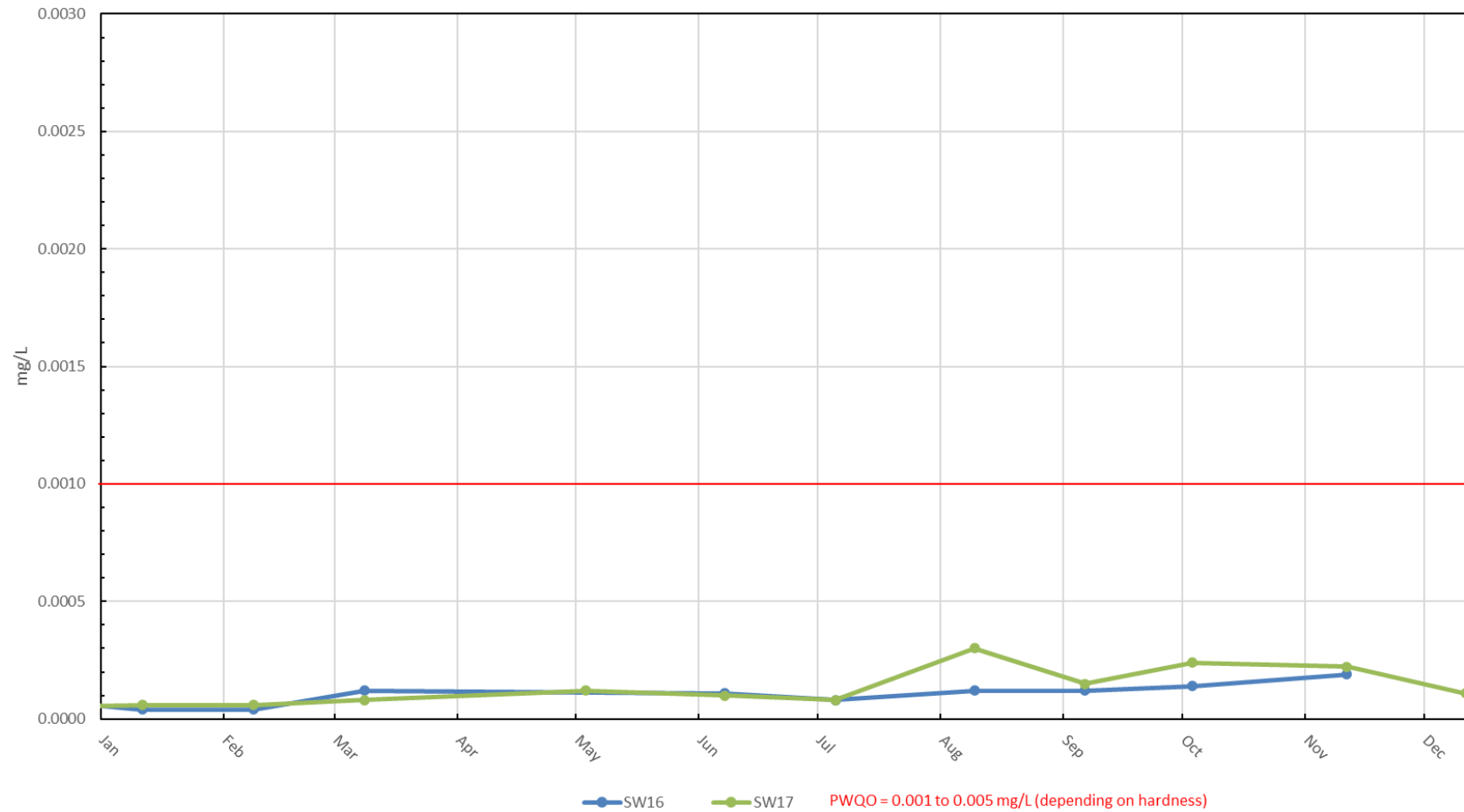


Figure 29a - Rainy River Mine, Total Nickel in Rainy River 2015-2022

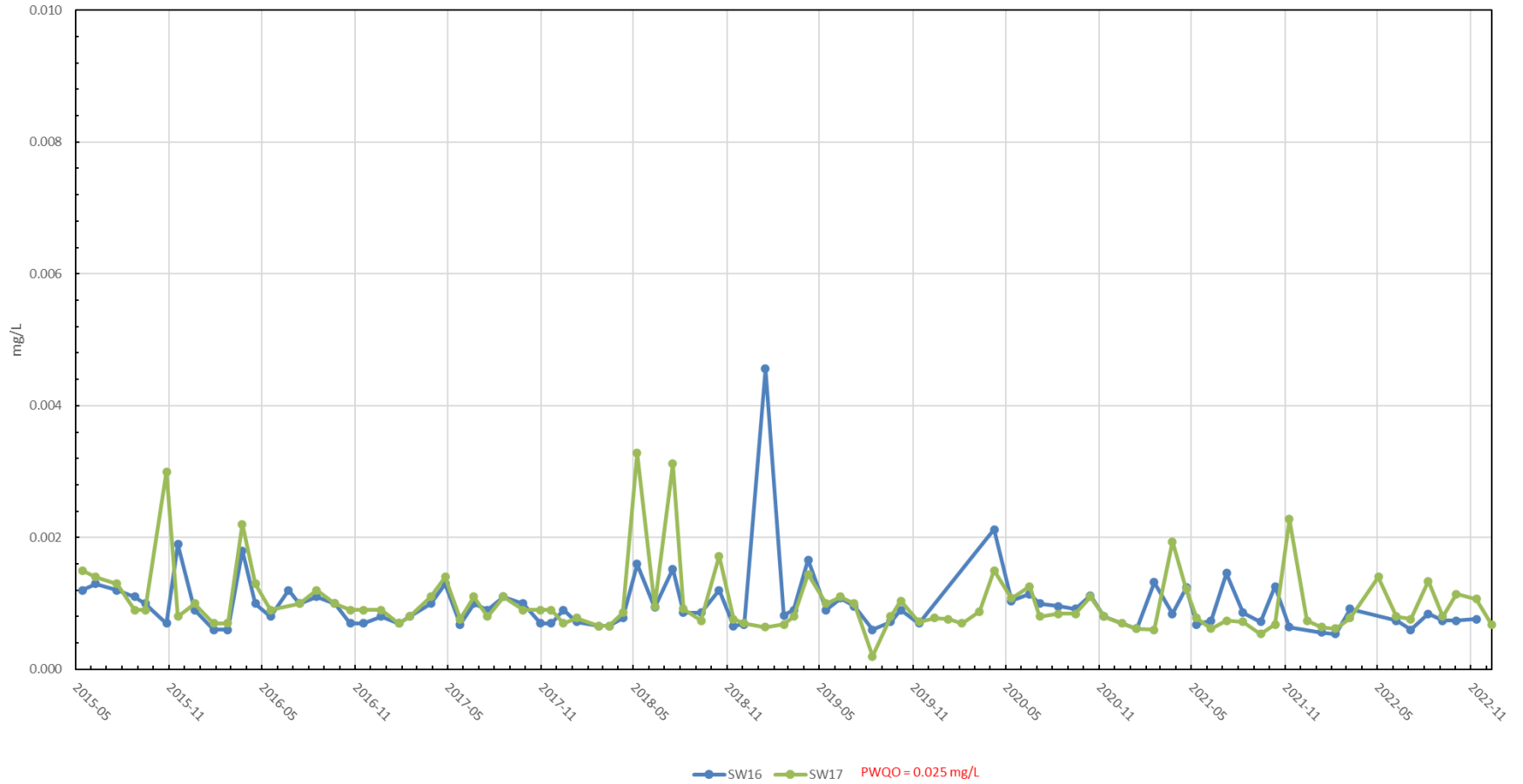


Figure 29b - Rainy River Mine, Total Nickel in Rainy River 2022

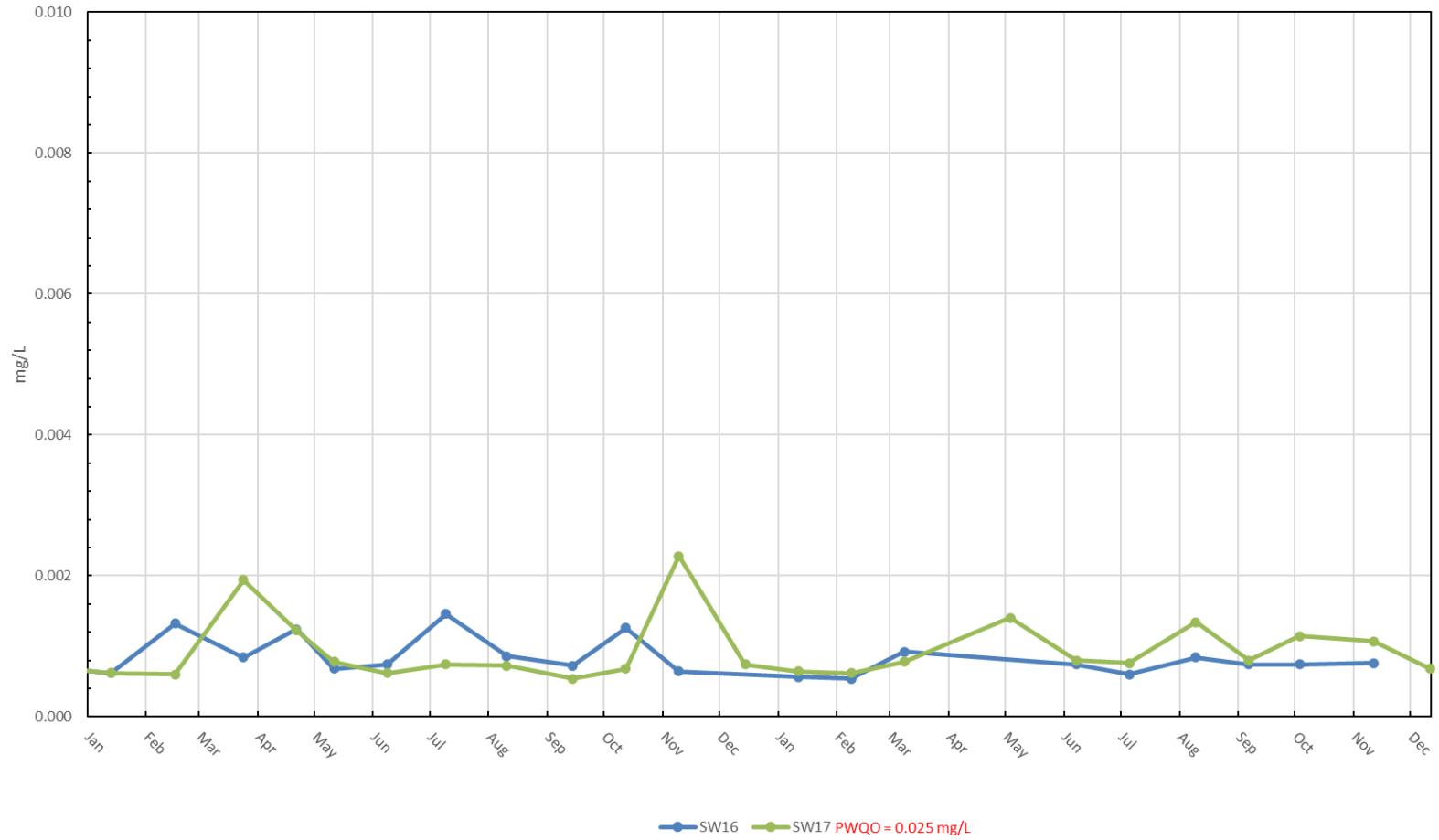


Figure 30a - Rainy River Mine, Total Phosphorus in Rainy River 2017-2022

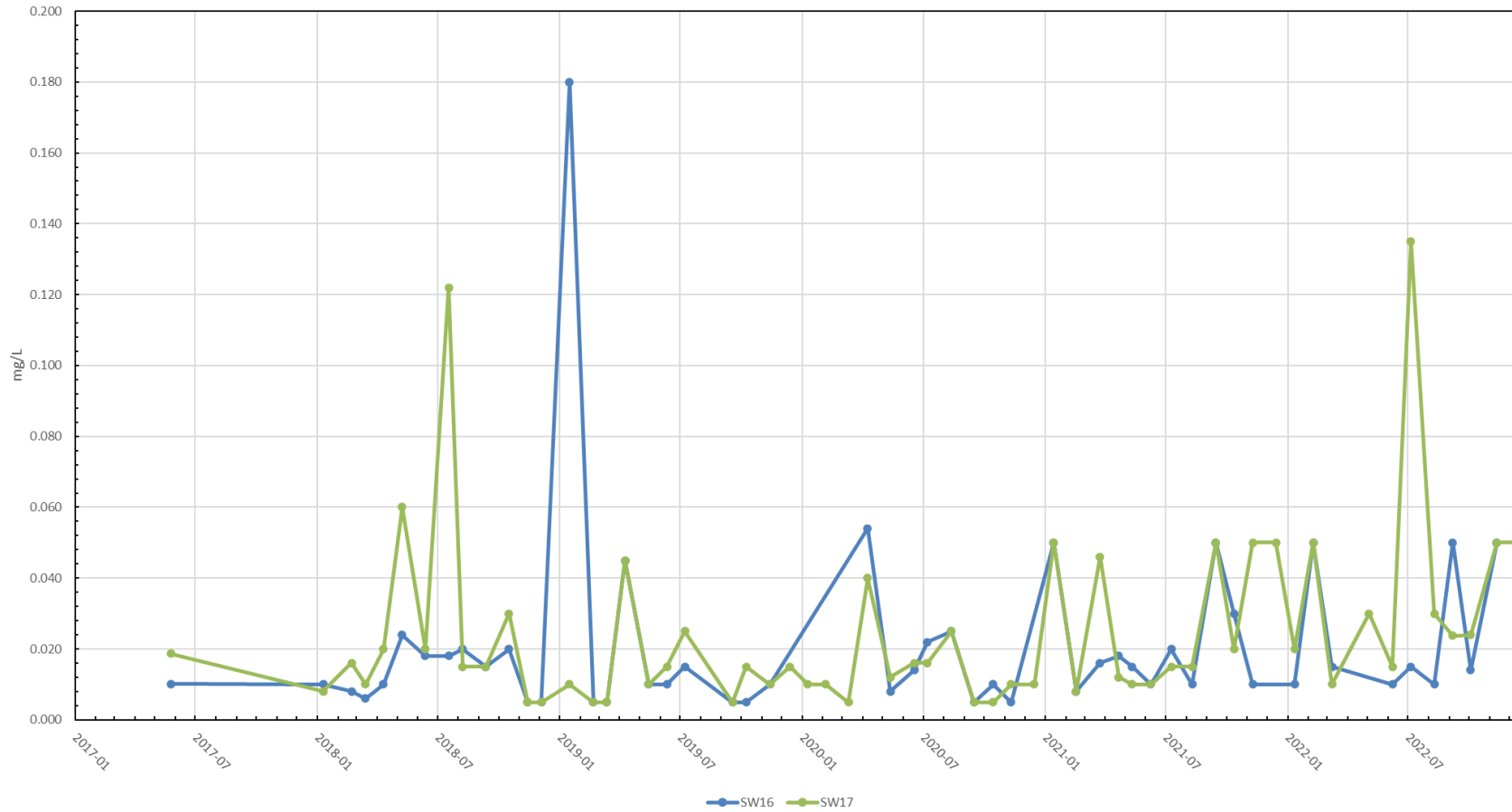


Figure 30b - Rainy River Mine, Total Phosphorus in Rainy River 2022

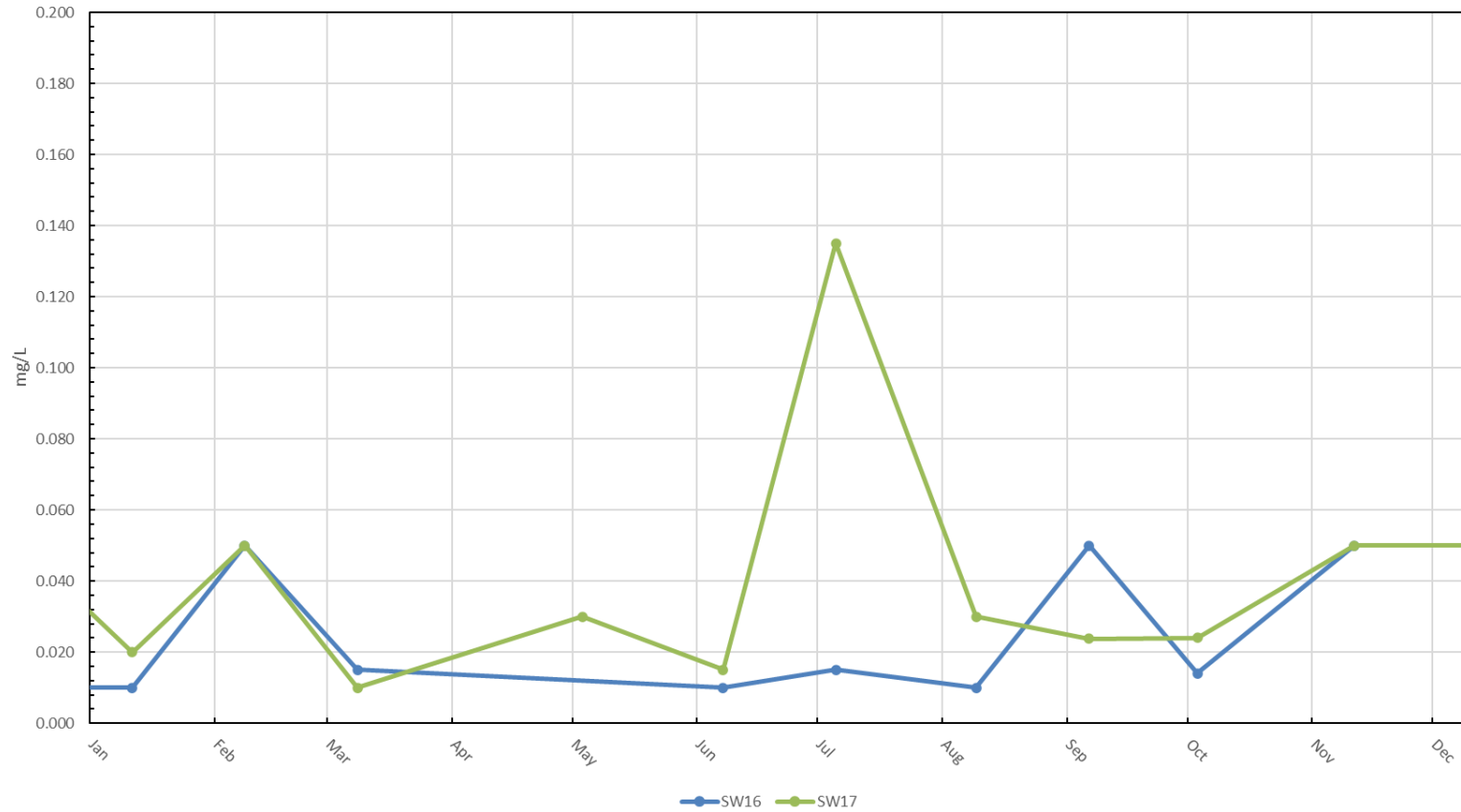


Figure 31a - Rainy River Mine, Total Zinc in Rainy River 2015-2022

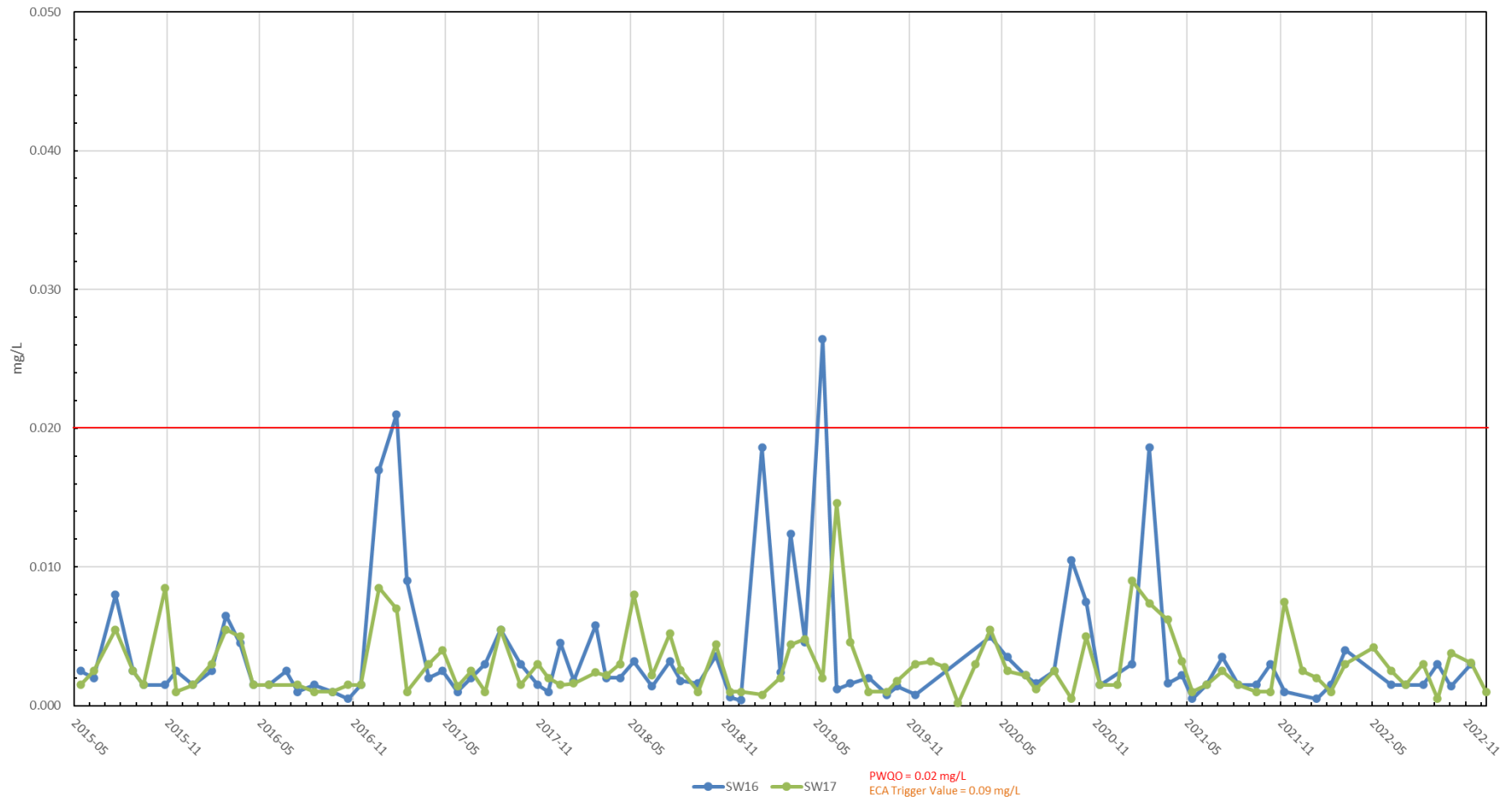


Figure 31b - Rainy River Mine, Total Zinc in Rainy River 2022

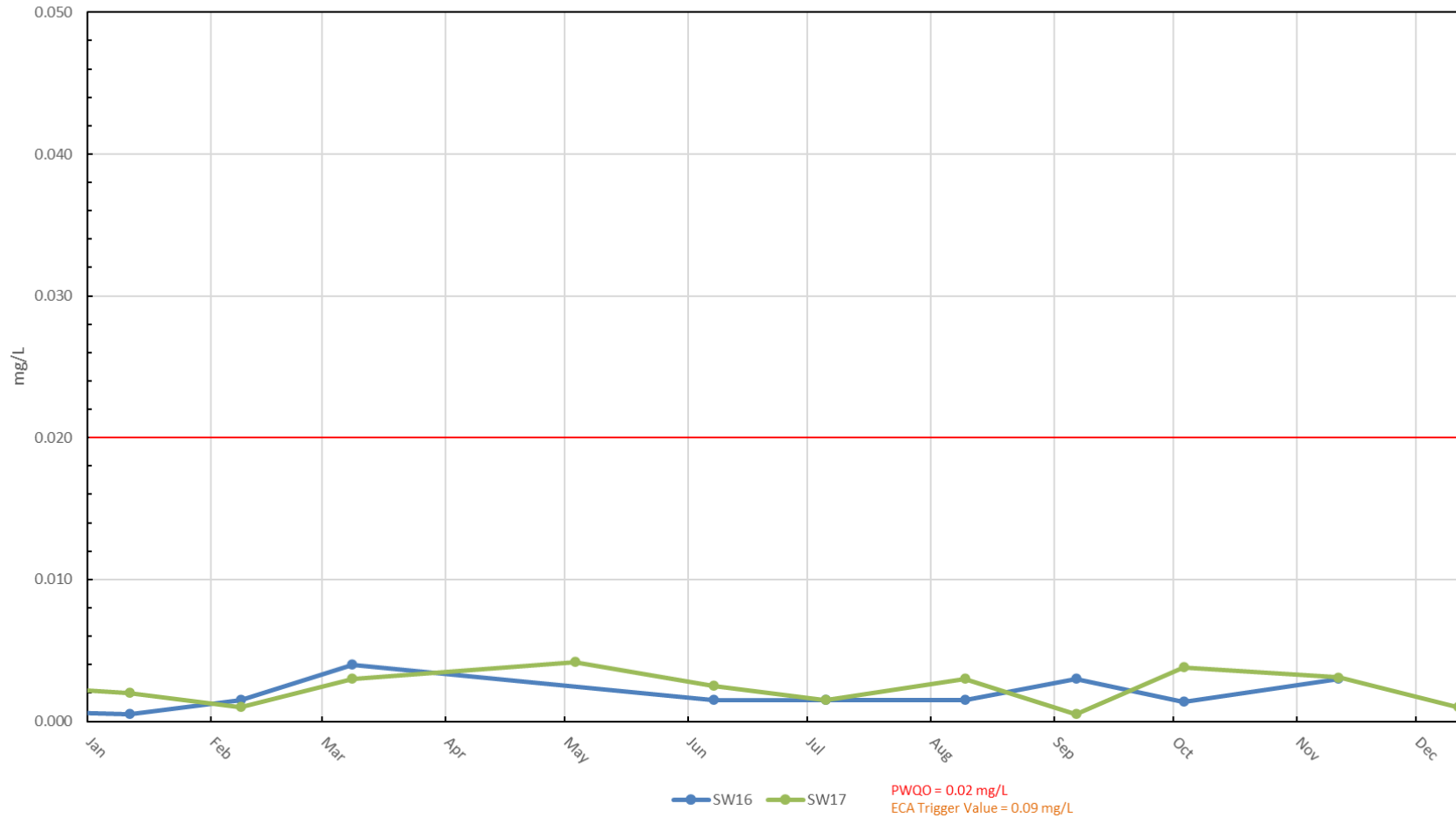


Figure 32a - Rainy River Mine, Total Mercury in Rainy River 2015-2022

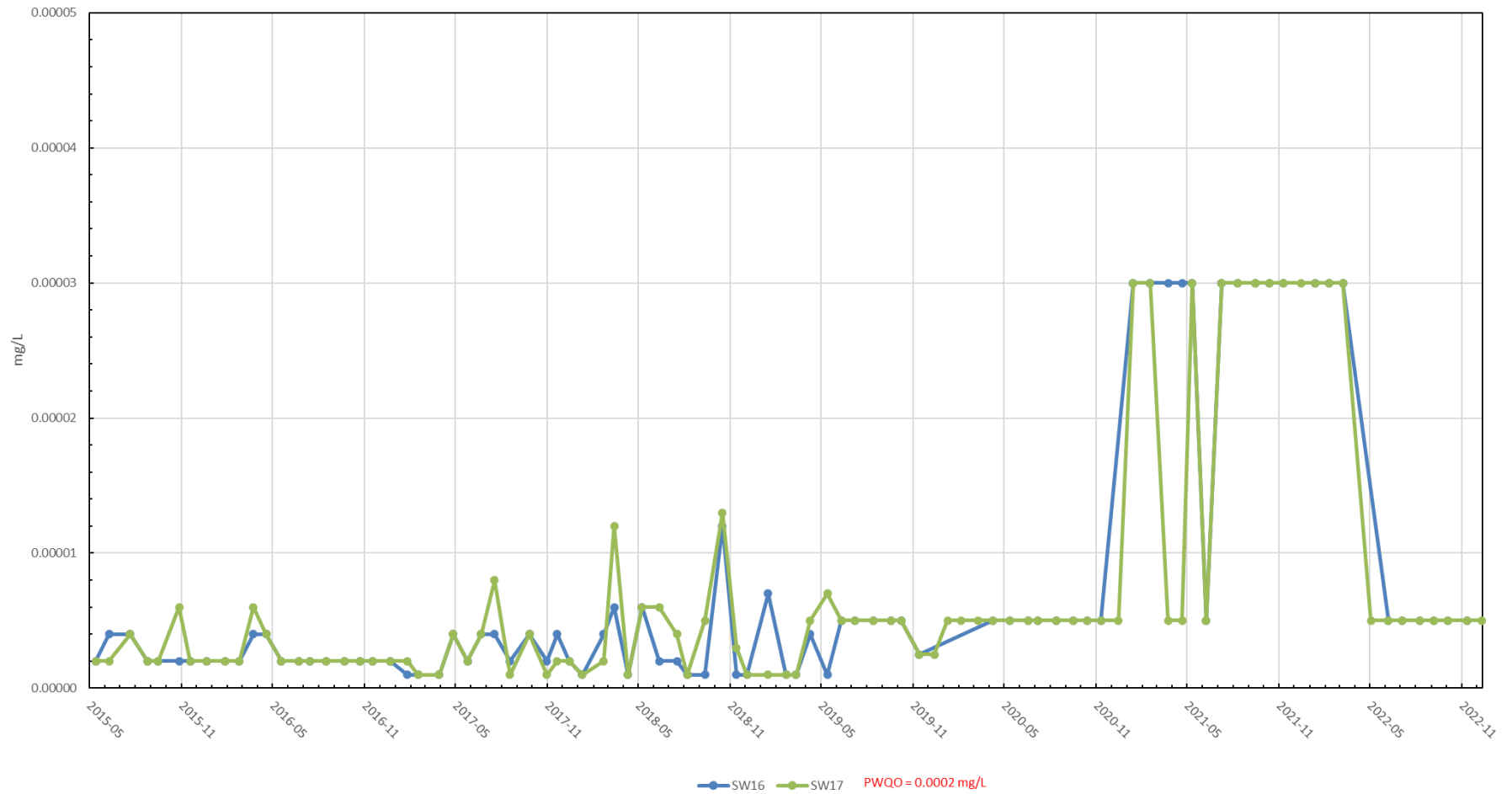


Figure 32b - Rainy River Mine, Total Mercury in Rainy River 2022

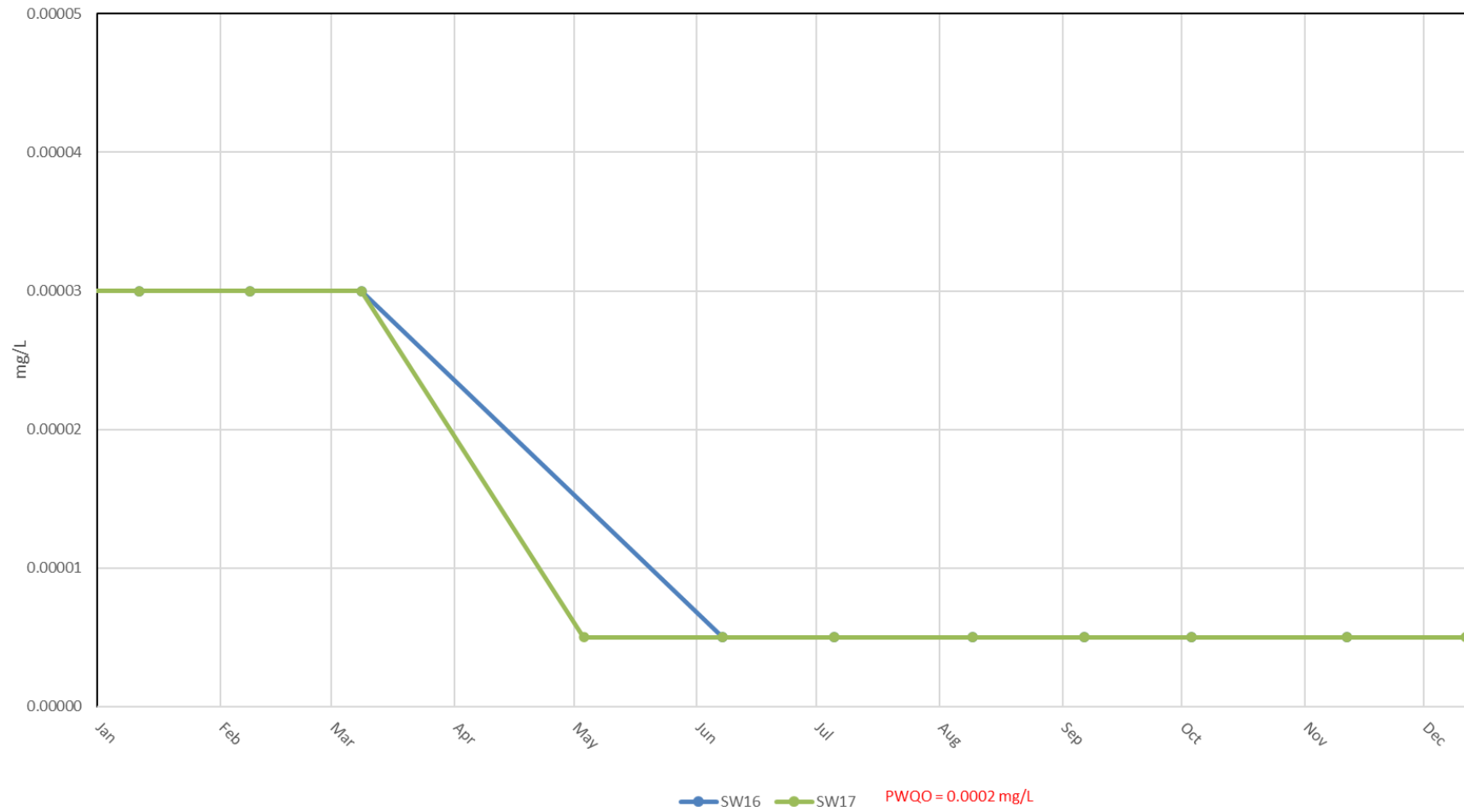


Figure 33a - Rainy River Mine, Un-ionized Ammonia in Rainy River 2015-2022

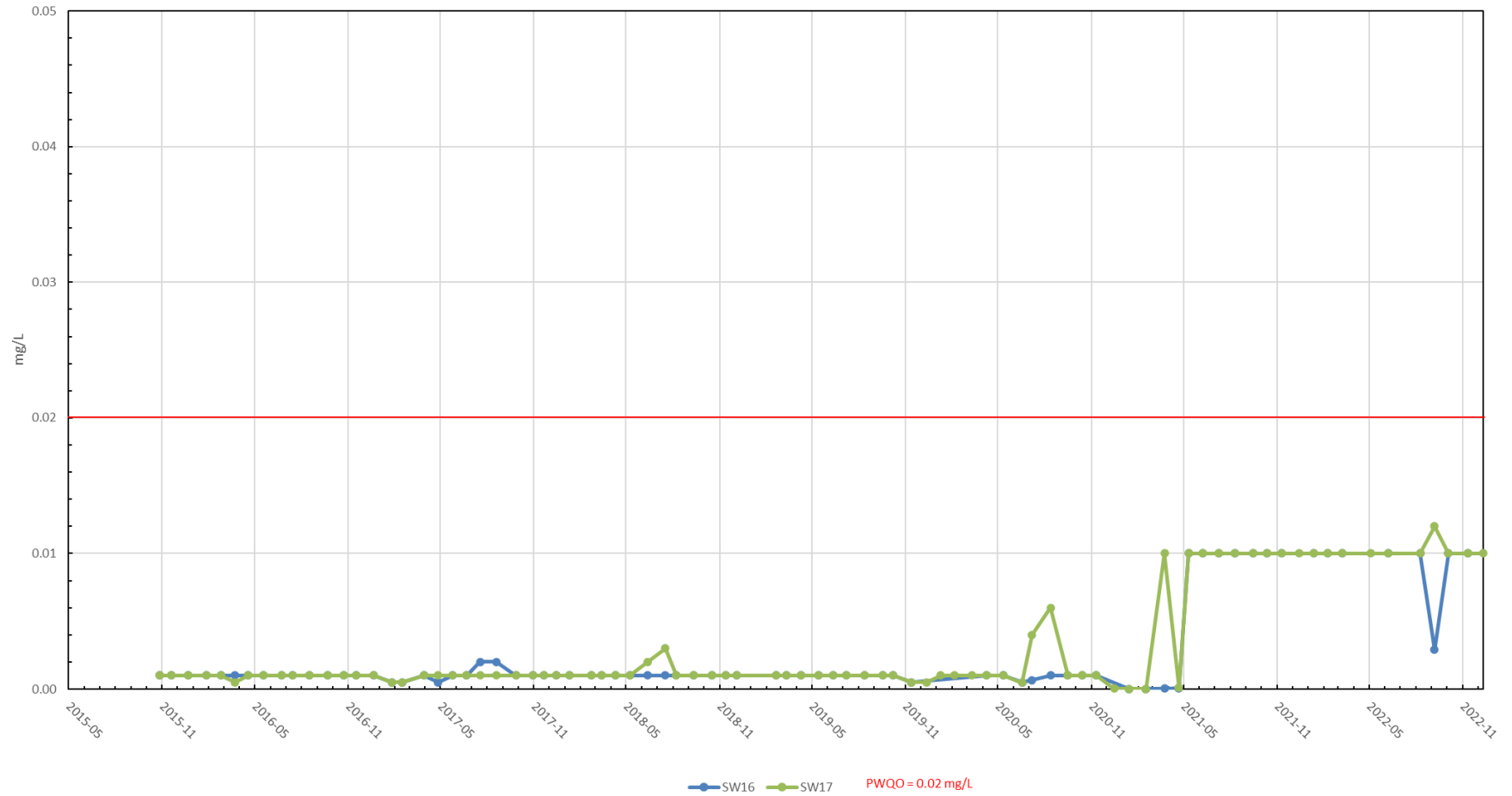


Figure 33b - Rainy River Mine, Un-ionized Ammonia in Rainy River 2022

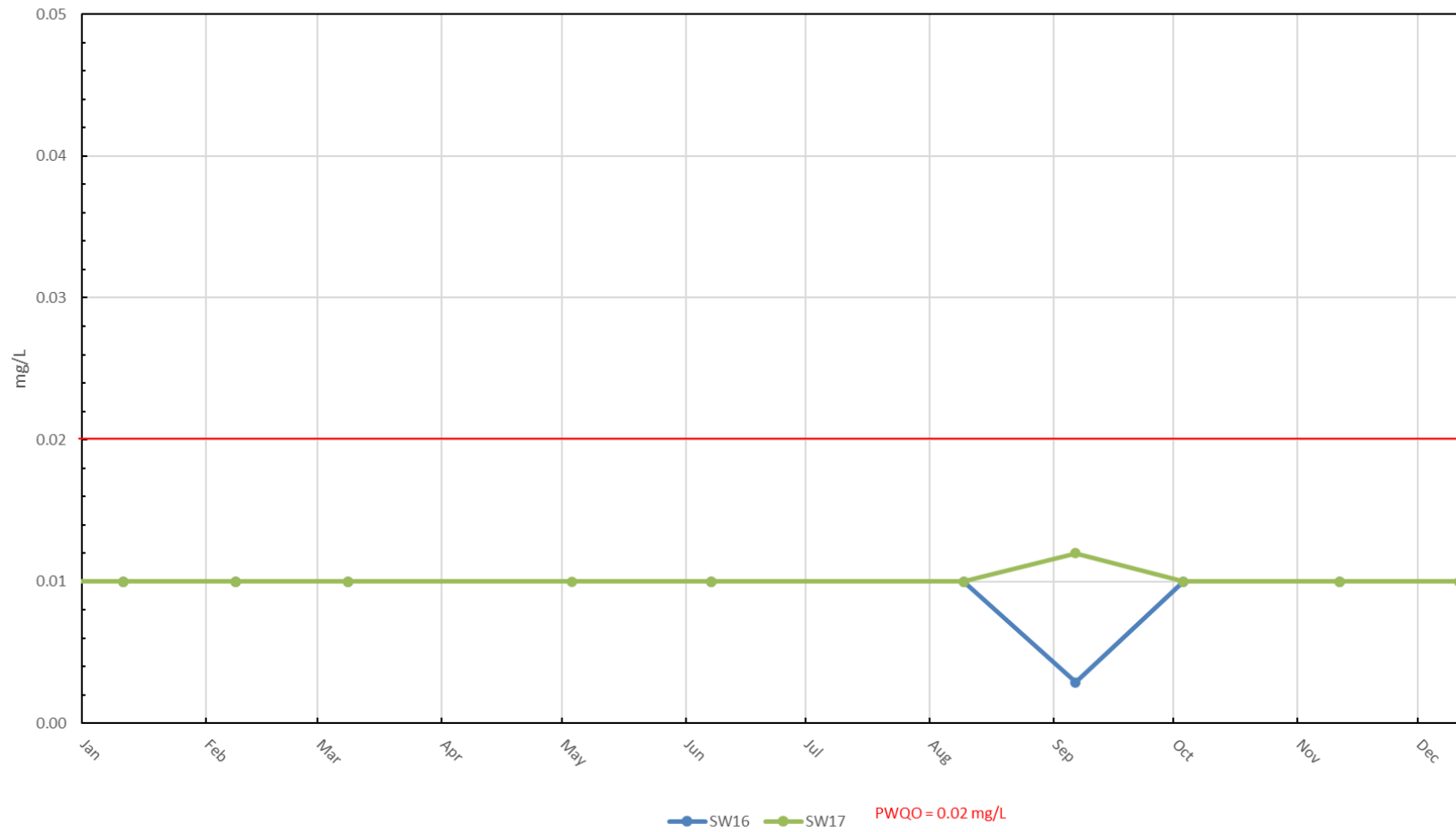


Figure 34a - Rainy River Mine, Free Cyanide in Rainy River 2018-2022

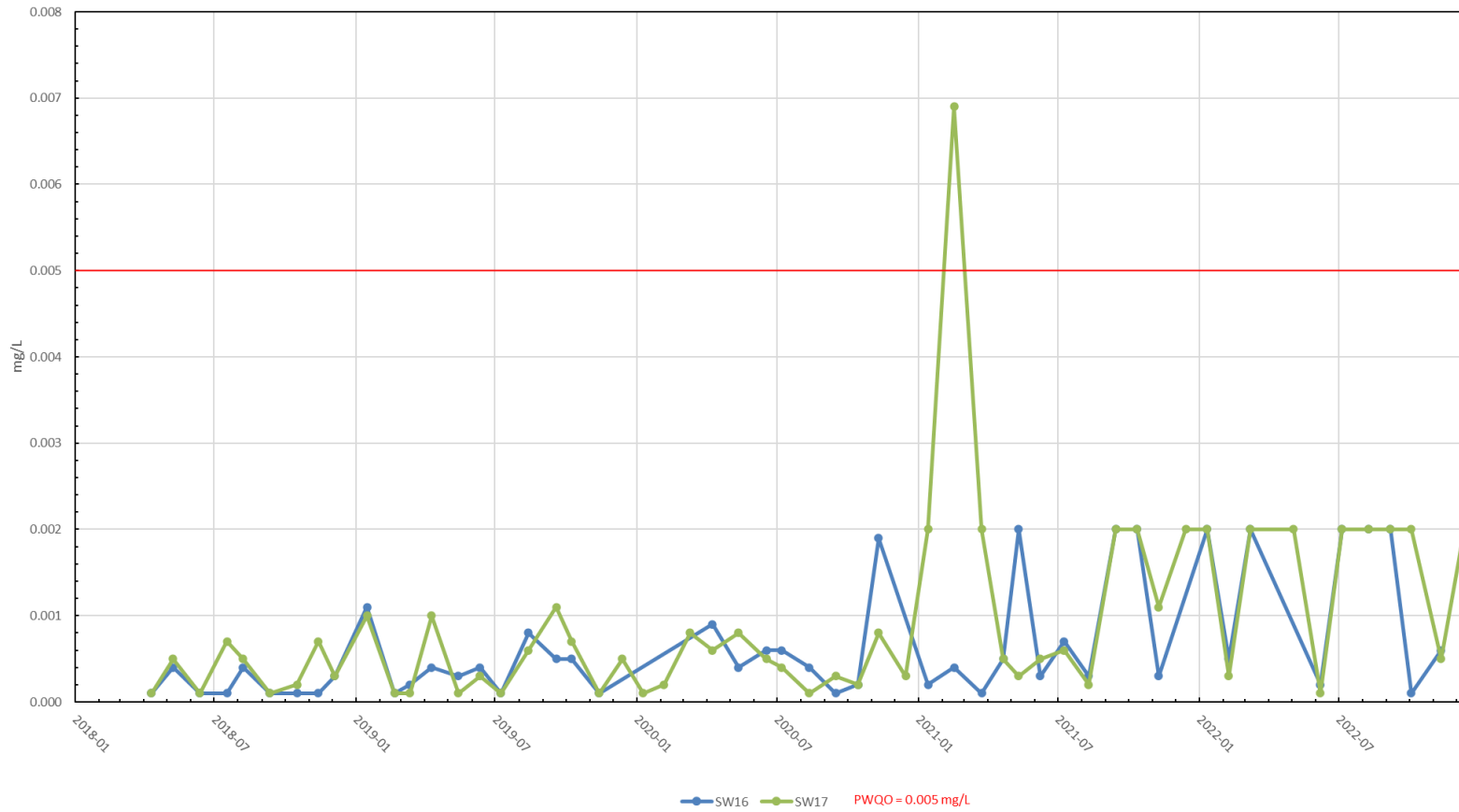
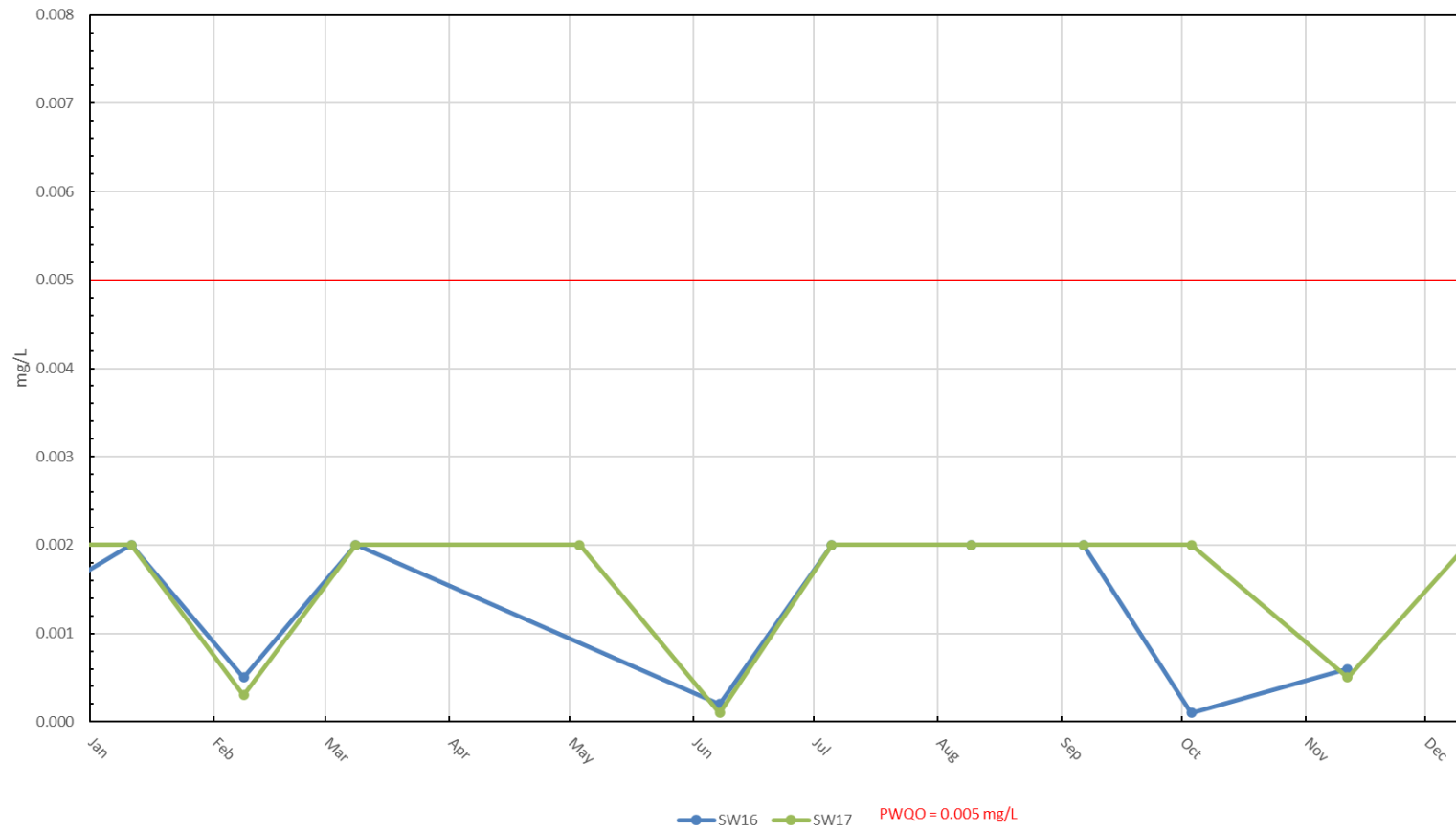


Figure 34b - Rainy River Mine, Free Cyanide in Rainy River 2022



2022 Annual Surface Water Report
Appendix A

Certification by Owner

March 22, 2023

Director
Ministry of the Environment, Conservation and Parks
Thunder Bay District Office
331-435 James St S
Thunder Bay, ON P7E 6S7

**Re: Certification regarding Rainy River Mine, 2022 Annual Surface Water Report,
Environmental Compliance Approvals #5178-9TUDP9 Conditions 8(6) and 11(5)b
#3855-C4E3FF Condition 12(9)**

Regarding the Rainy River Mine located in Unsurveyed Territory (Kenora Area Office), District of Rainy River, Ontario:

I certify that the information in this document and all attachments are correct, accurate and complete to the best of my knowledge.

Should you have any questions or require additional information for any part of this submission, please contact the undersigned at 807-234-8170.

Sincerely,

<original signed by>

Garnet Cornell
Environment Superintendent
New Gold, Rainy River Mine

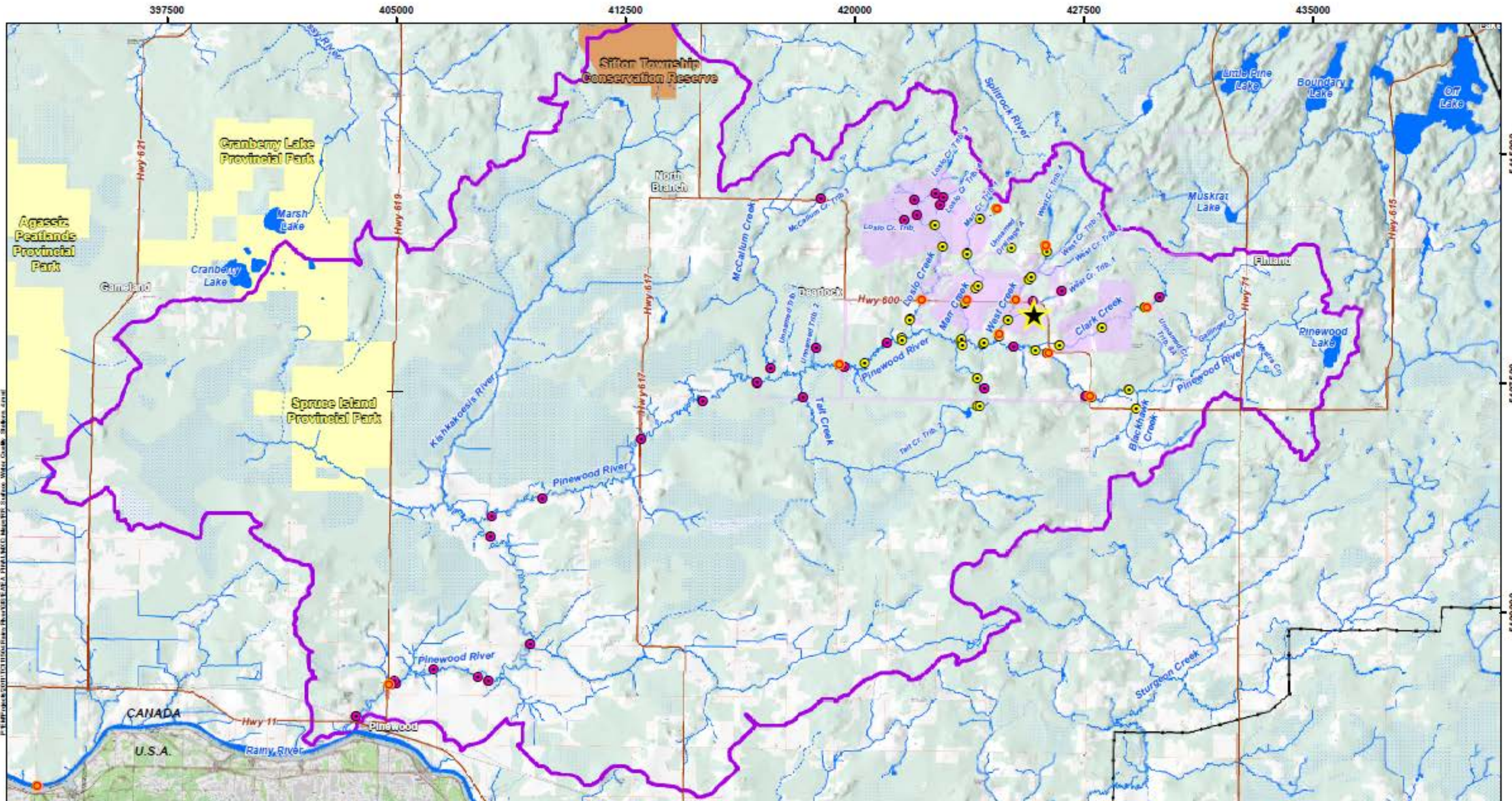
cc: MECP Northern Region Kenora Area Office

2022 Annual Surface Water Report
Appendix B

Baseline Receiver Water Quality Tables and Graphs

Table 5-4: RRP Monthly Surface Water Quality Monitoring Stations

| Station | Description | Function (potential longer term function) |
|---------|---|---|
| SW1 | Pinewood River 0.3 km upstream of confluence with Clark Creek (Teeple Drain) | Background data for Pinewood River |
| SW2 | West Creek above Highway 600 | Background data for West Creek (this portion of West Creek to be diverted by RRP development) |
| SW3 | Pinewood River at Pinewood River Road approximately 3 km downstream of confluence with Loslo Creek (Cowser Drain) | Pinewood River downstream station (permanent downstream station) |
| SW4 | Unnamed Creek which drains Muskrat Lake, Rainy Lake catchment | Small creek control site outside of RRP influence (permanent reference station) |
| SW7A | West Creek above confluence with Pinewood River | Background data for West Creek (this portion of West Creek to be diverted by RRP development) |
| SW10 | Pinewood River at Highway 600 | Long term Pinewood River control station, positioned upstream of all proposed developments (permanent upstream station) |
| SW11 | Clark Creek (Teeple Drain) 1.5 km north of Township landfill | Background data for Clark Creek (Clark Creek / Teeple Drain to be displaced by RRP development) |
| SW12A | Marr Creek 3.8 km above Highway 600 | Background data for Marr Creek (Marr Creek to be displaced by RRP development) |
| SW13 | Loslo Creek above Highway 600 | Background data for Loslo Creek (Loslo Creek to be extensively displaced / modified by RRP development) |
| SW14 | West Creek 2.5 km above Highway 600 | Background data for West Creek (this portion of West Creek to be diverted by RRP development) |
| SW15 | Pinewood River approximately 2 km above confluence with Rainy River | Pinewood River furthest downstream station (permanent downstream station) |
| SW16 | Rainy River approximately 40 km upstream of confluence with Pinewood River | Rainy River upstream station (permanent upstream station) |
| SW17 | Rainy River approximately 12 km downstream of confluence with Pinewood River | Rainy River downstream station (permanent downstream station) |
| SW18 | Marr Creek at Highway 600 | Background data for Marr Creek (Marr Creek to be displaced by RRP development) |



LEGEND

- ★ RRP Site
- Approximate Principal RRP Facilities
- Regional Road / Highway
- Permanent Watercourse
- Intermittent Watercourse
- Transmission Line
- Waterbody
- Pinewood River Watershed
- First Nation Reserve
- Conservation Reserve (Regulated)
- Provincial Park

Water Quality Sampling Locations (within study area)

- Water Quality Sampling Location (AMEC 2012)
- Water Quality Sampling Location (AMEC 2011)
- RRR Monthly Surface Water Quality Stations

NOTES:
 - All base data on this map was extracted from Land Information Ontario (LIRIS), Queen's Printer for Ontario, 2011-2012 and MRCA Topographic 1:50,000 NTS DRG map sheets, 2011
 - USA land extracted from ESRI base map service, USGS Topo maps

Datum: NAD83
 Projection: UTM Zone 18N

newgold Rainy River Project **amec**

RAINY RIVER PROJECT

Surface Water Quality Stations

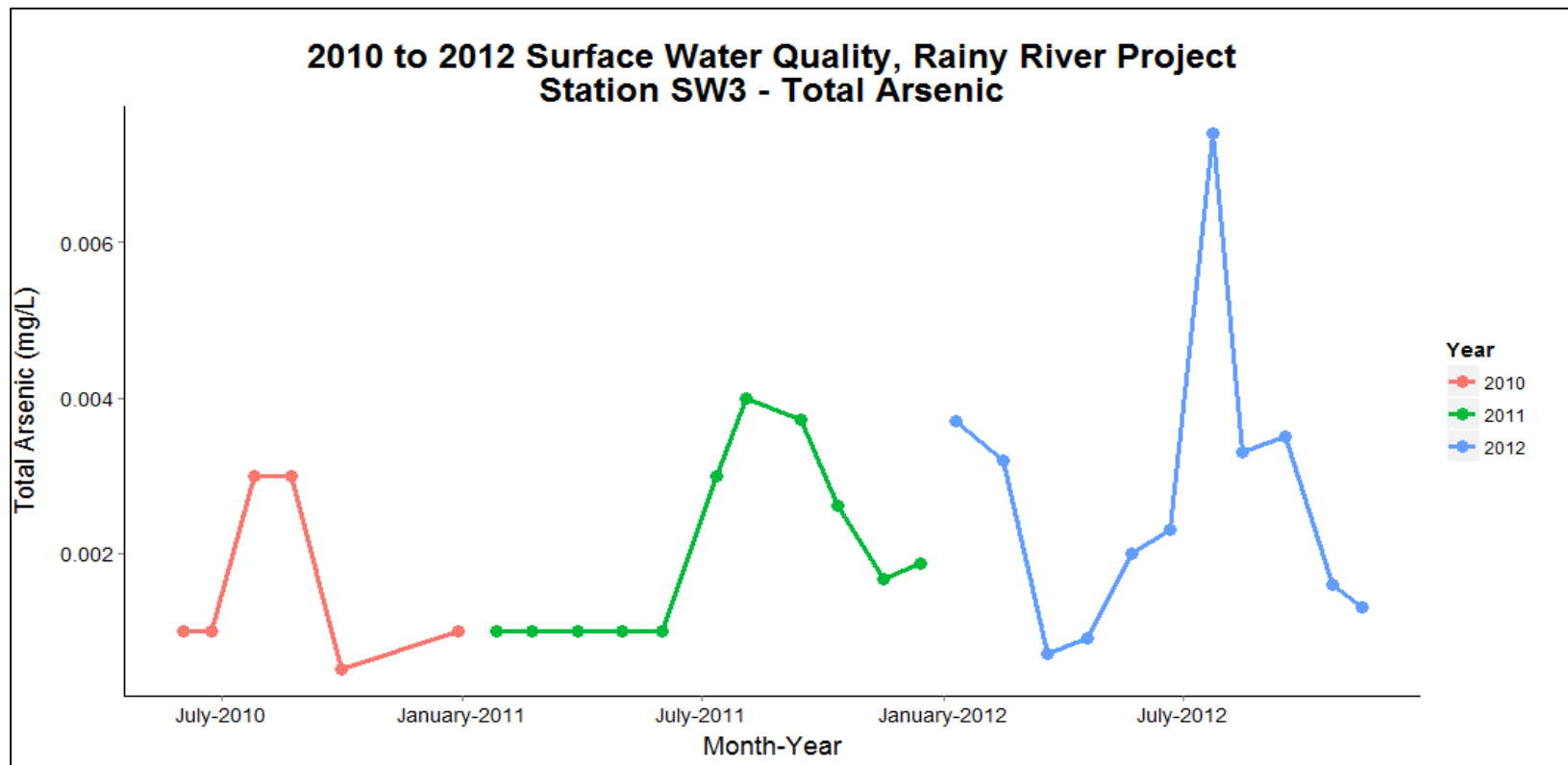
PROJECT N°: TC111504 FIGURE: 5-9

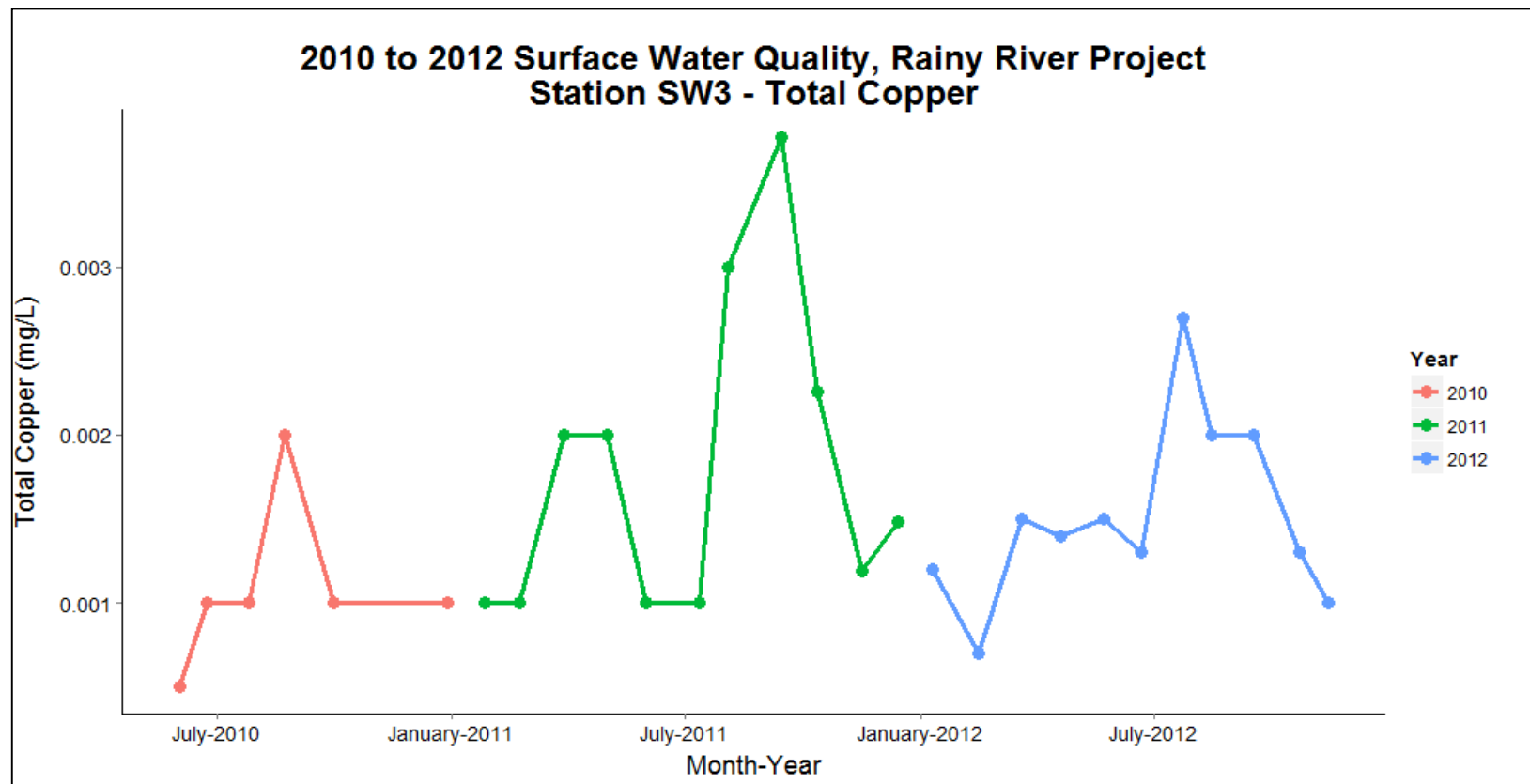
SCALE: 1:119,500 DATE: October 2013

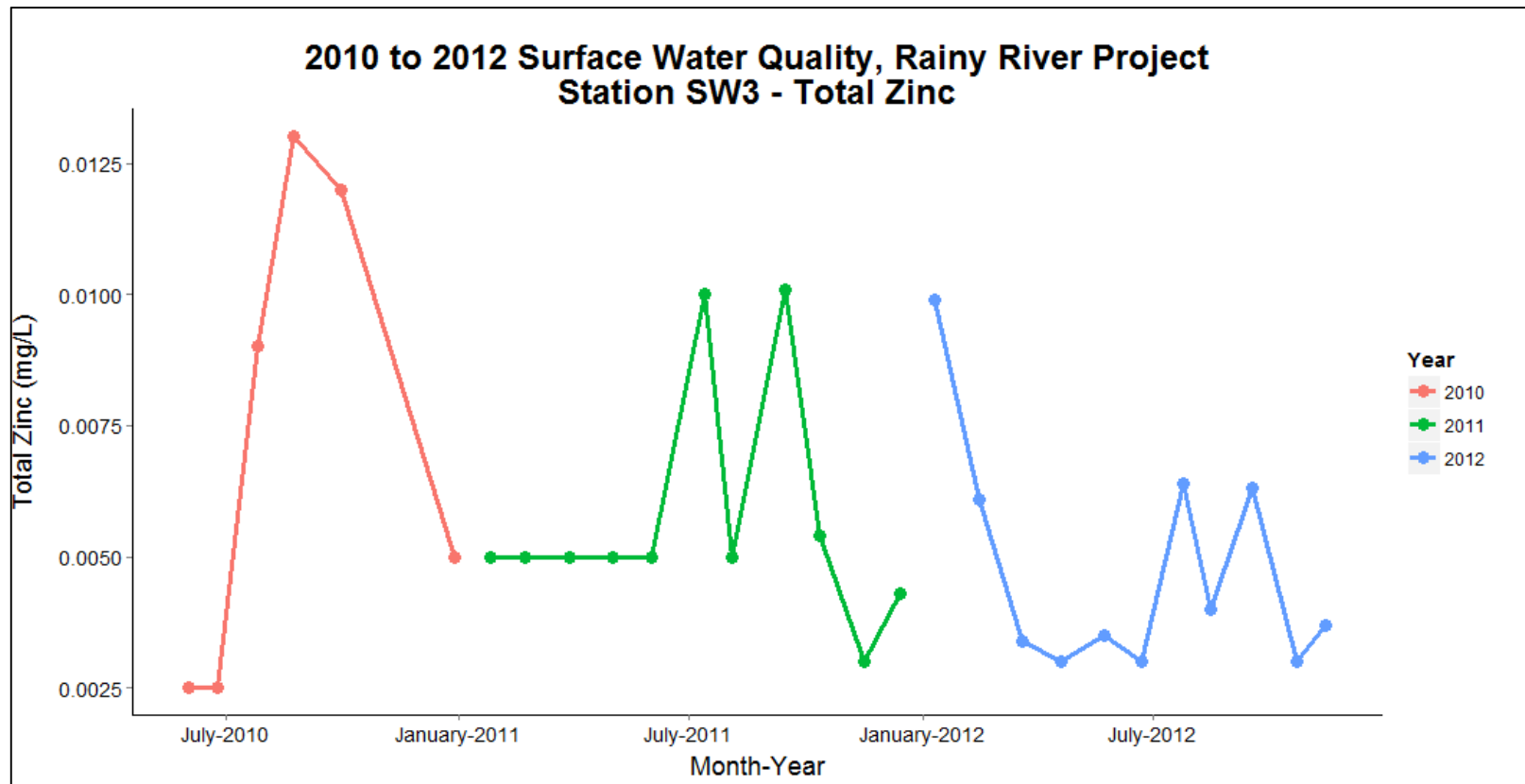


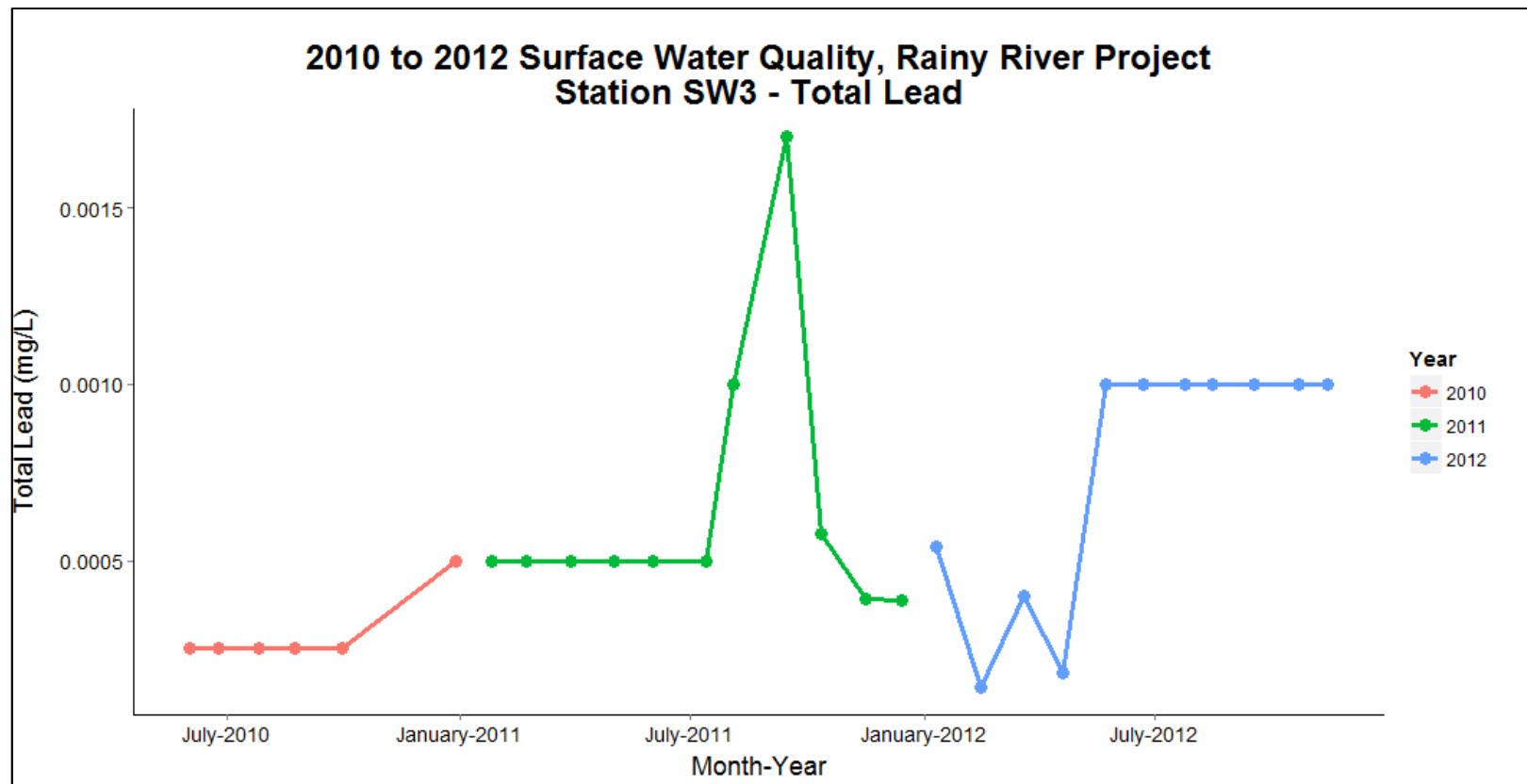
TABLE 5-22: 2010 TO 2012 SURFACE WATER ANALYTICAL RESULTS

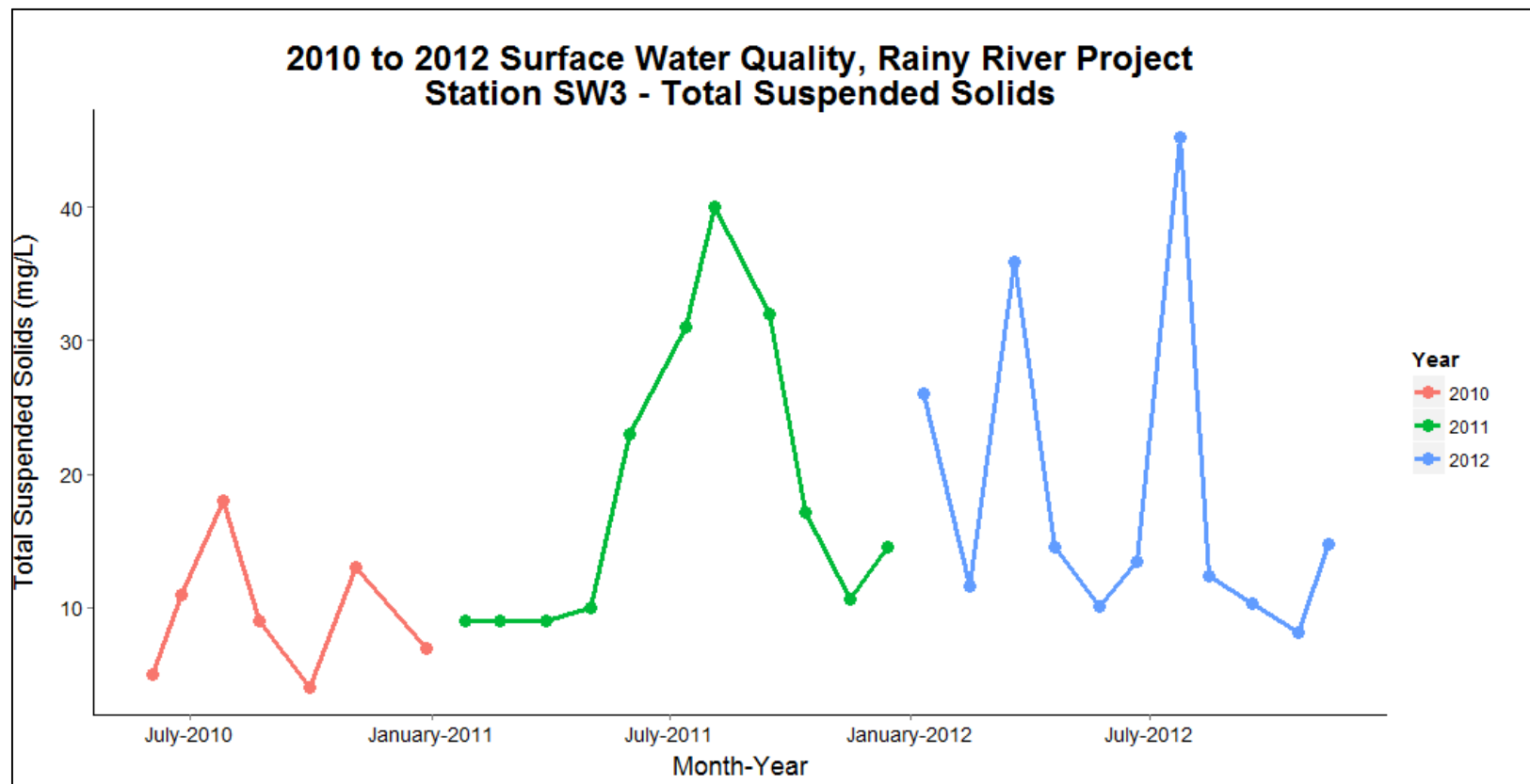
| | pH | Conductivity | Hardness as CaCO ₃ | Dissolved Organic Carbon | TSS | Total Ammonia-N | Fluoride | Nitrate | Nitrite | Cyanide Total | Aluminum-Dissolved | Aluminum Total | Antimony Total | Arsenic Total | Boron Total | Cadmium Total | Chromium Total | Cobalt Total | Copper Total | Iron Total | Lead Total | Mercury Total | Molybdenum Total | Nickel Total | Phosphorus Total | Selenium Total | Thallium Total | Uranium Total | Vanadium Total | Zinc Total | |
|--------|---------|--------------|-------------------------------|--------------------------|------|-----------------|----------|---------|---------|--------------------|--------------------|----------------|--|---------------|-------------|--|----------------------------|--------------|-----------------------------|------------|--|---------------|--------------------|--------------------|---|------------------------------|---------------------|---------------|--------------------------|------------|--------|
| PWQO | 6.5-8.5 | - | - | - | - | - | - | - | - | 0.005 ^A | 0.075 ^B | - | 0.02 ^C | 0.1(0.005) | 0.2 | 0.0002 | 0.001 / 0.008 ^F | 0.0009 | 0.005 / 0.005 ^F | 0.3 | 0.020 / 0.025 (0.003 / 0.005) ^F | 0.0002 | 0.04 ^G | 0.025 | 0.03 ^H | 0.1 | 0.0003 ^I | 0.005 | 0.006 ^J | 0.03(0.02) | |
| CEQG | 6.5-9.0 | - | - | - | - | - | 0.12 | 2.935 | 0.06 | 0.005 ^A | 0.1 ^F | - | - | 0.005 | 1.5 | 0.00015-0.0008 ^F | 0.001 / 0.008 ^F | - | 0.002 - 0.0062 ^F | 0.3 | 0.00102 - 0.0134 ^F | 0.000026 | 0.073 ^G | 0.025 ^H | - | 0.001 | 0.0008 | 0.015 | - | 0.03 | |
| RDL | 0.10 | 3.0 | 5.0 | 1.0 | 2.0 | 0.020 | 0.030 | 0.030 | 0.020 | 0.0020 | 0.0050 | 0.0050 | 0.00010 / 0.00050 / 0.00060 / 0.00090 ^F | 0.0010 | 0.050 | 0.00010 / 0.00050 / 0.00060 / 0.00090 ^F | 0.00050 / 0.0010 | 0.00050 | 0.00070 / 0.0010 | 0.020 | 0.00010 / 0.0010 | 0.000020 | 0.00020 / 0.0010 | 0.0020 | 0.00050 / 0.00040 / 0.00020 / 0.0010 / 0.0020 | 0.000030 / 0.00050 / 0.00030 | 0.00050 | 0.0010 | 0.0020 / 0.0030 / 0.0050 | | |
| | units | uS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| SW1A | Min | 7.17 | 180.0 | 79.0 | 11.1 | 4.7 | 0.020 | 0.030 | 0.030 | 0.01 | 0.0020 | 0.0025 | 0.042 | 0.0001 | 0.0007 | 0.010 | 0.0001 | 0.0002 | 0.0009 | 0.266 | 0.0002 | 0.0001 | 0.0003 | 0.0010 | 0.028 | 0.0002 | 0.0001 | 0.0003 | 0.0006 | 0.0010 | |
| | Max | 8.83 | 574.0 | 301.0 | 38.9 | 74.0 | 0.134 | 0.107 | 0.795 | 0.02 | 0.0050 | 0.0570 | 0.521 | 0.0050 | 0.0030 | 0.050 | 0.0001 | 0.0006 | 0.0020 | 0.942 | 0.0036 | 0.0001 | 0.0010 | 0.0079 | 0.130 | 0.0020 | 0.00030 | 0.0050 | 0.0020 | 0.03 | |
| | Median | 7.70 | 331.0 | 183.0 | 21.4 | 10.0 | 0.033 | 0.090 | 0.048 | 0.02 | 0.0020 | 0.0095 | 0.256 | 0.0005 | 0.0013 | 0.021 | 0.0004 | 0.0012 | 0.0005 | 0.0010 | 0.615 | 0.0005 | 0.00005 | 0.0010 | 0.0020 | 0.063 | 0.0010 | 0.00005 | 0.0007 | 0.0012 | 0.0048 |
| | St Dev. | 0.29 | 97.3 | 56.9 | 6.9 | 15.5 | 0.026 | 0.025 | 0.143 | 0.01 | 0.0013 | 0.0116 | 0.132 | 0.0009 | 0.0008 | 0.015 | 0.0004 | 0.0018 | 0.0001 | 0.0004 | 0.195 | 0.0007 | 0.00004 | 0.0003 | 0.0012 | 0.006 | 0.00012 | 0.0019 | 0.0005 | 0.0004 | |
| | N | 28 | 28 | 23 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 25 | 28 | 28 | 23 | 28 | 28 | 28 | 28 | 28 |
| 75th % | 7.90 | 384.5 | 216.5 | 25.2 | 18.6 | 0.050 | 0.100 | 0.100 | 0.02 | 0.0050 | 0.0143 | 0.369 | 0.0005 | 0.0026 | 0.033 | 0.00010 | 0.0050 | 0.0005 | 0.0013 | 0.775 | 0.0010 | 0.0001 | 0.0010 | 0.0022 | 0.093 | 0.0020 | 0.00011 | 0.0031 | 0.0020 | 0.0053 | |
| SW2 | Min | 7.30 | 136.0 | 72.1 | 8.9 | 2.0 | 0.020 | 0.030 | 0.030 | 0.01 | 0.0020 | 0.0021 | 0.019 | 0.0005 | 0.00050 | 0.00005 | 0.00005 | 0.00007 | 0.0005 | 0.174 | 0.00005 | 0.000010 | 0.00031 | 0.0010 | 0.0128 | 0.00020 | 0.000003 | 0.00010 | 0.00050 | 0.0022 | |
| | Max | 9.38 | 447.0 | 256.0 | 28.4 | 142.0 | 0.088 | 0.114 | 0.383 | 0.02 | 0.0050 | 0.035 | 0.610 | 0.0050 | 0.0030 | 0.050 | 0.00010 | 0.0010 | 0.0040 | 1.03 | 0.0012 | 0.0001 | 0.0010 | 0.0030 | 0.126 | 0.0020 | 0.00030 | 0.0050 | 0.0032 | 0.0506 | |
| | Median | 7.83 | 244.0 | 155.5 | 19.9 | 6.9 | 0.029 | 0.076 | 0.050 | 0.01 | 0.0025 | 0.0130 | 0.140 | 0.0005 | 0.0010 | 0.011 | 0.00050 | 0.0005 | 0.0010 | 0.550 | 0.0005 | 0.000075 | 0.0010 | 0.0020 | 0.038 | 0.0020 | 0.00005 | 0.0003 | 0.0010 | 0.0050 | |
| | St Dev. | 0.44 | 86.5 | 56.1 | 4.6 | 24.2 | 0.019 | 0.025 | 0.064 | 0.01 | 0.0008 | 0.0122 | 0.0008 | 0.00062 | 0.0144 | 0.00037 | 0.00189 | 0.00017 | 0.0009 | 0.268 | 0.00031 | 0.00004 | 0.00026 | 0.0006 | 0.029 | 0.00063 | 0.00010 | 0.0017 | 0.00053 | 0.0082 | |
| | N | 35 | 35 | 20 | 35 | 35 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 20 | 33 | 33 | 33 | 33 | 33 |
| 75th % | 8.00 | 293.5 | 205.3 | 22.7 | 17.0 | 0.050 | 0.100 | 0.100 | 0.02 | 0.0050 | 0.020 | 0.215 | 0.0005 | 0.0012 | 0.015 | 0.00010 | 0.0050 | 0.00050 | 0.0020 | 0.860 | 0.0005 | 0.0001 | 0.0010 | 0.0020 | 0.060 | 0.0020 | 0.00005 | 0.0008 | 0.0012 | 0.0050 | |
| SW3 | Min | 7.27 | 181.0 | 83.0 | 9.0 | 4.0 | 0.020 | 0.030 | 0.030 | 0.005 | 0.00001 | 0.0020 | 0.0029 | 0.0008 | 0.00050 | 0.00001 | 0.0005 | 0.00022 | 0.00050 | 0.290 | 0.00014 | 0.000010 | 0.00041 | 0.0010 | 0.0292 | 0.000031 | 0.000004 | 0.00030 | 0.00050 | 0.0025 | |
| | Max | 8.61 | 780.0 | 450.0 | 39.4 | 45.2 | 0.47 | 0.136 | 0.381 | 0.020 | 0.0050 | 0.038 | 2.77 | 0.0050 | 0.0074 | 0.050 | 0.00010 | 0.0050 | 0.0047 | 0.0038 | 3.72 | 0.0017 | 0.0001 | 0.0015 | 0.0050 | 0.194 | 0.0020 | 0.00030 | 0.0050 | 0.0084 | 0.0130 |
| | Median | 7.80 | 343.0 | 195.0 | 21.1 | 12.4 | 0.025 | 0.093 | 0.050 | 0.020 | 0.0020 | 0.0101 | 0.300 | 0.00050 | 0.0018 | 0.019 | 0.00050 | 0.0025 | 0.00050 | 0.0013 | 0.789 | 0.0005 | 0.00005 | 0.0010 | 0.0020 | 0.069 | 0.00100 | 0.00005 | 0.0010 | 0.0014 | 0.0050 |
| | St Dev. | 0.30 | 125.0 | 75.7 | 6.7 | 10.8 | 0.08 | 0.026 | 0.070 | 0 | 0.0083 | 0.0505 | 0.0009 | 0.0015 | 0.015 | 0.00035 | 0.0018 | 0.00107 | 0.00076 | 0.74 | 0.00037 | 0.00004 | 0.00030 | 0.0012 | 0.044 | 0.00063 | 0.00012 | 0.0019 | 0.0015 | 0.0029 | |
| | N | 29 | 29 | 23 | 29 | 29 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| 75th % | 7.97 | 386.0 | 208.5 | 25.6 | 18.0 | 0.050 | 0.100 | 0.100 | 0.020 | 0.0050 | 0.015 | 0.389 | 0.00053 | 0.0031 | 0.037 | 0.000100 | 0.0050 | 0.00065 | 0.0020 | 0.93 | 0.0010 | 0.0001 | 0.0010 | 0.0033 | 0.105 | 0.0020 | 0.00011 | 0.0027 | 0.0020 | 0.0063 | |
| SW4 | Min | 6.64 | 74.0 | 34.9 | 7.9 | 1.0 | 0.020 | 0.030 | 0.030 | 0.005 | 0.0020 | 0.0056 | 0.018 | 0.0003 | 0.00030 | 0.00005 | 0.00005 | 0.000085 | 0.00050 | 0.140 | 0.00009 | 0.000010 | 0.00005 | 0.0004 | 0.0123 | 0.00020 | 0.000003 | 0.00012 | 0.00020 | 0.0024 | |
| | Max | 8.32 | 168.0 | 81.0 | 32.7 | 13.0 | 0.20 | 0.100 | 0.100 | 0.020 | 0.0050 | 0.028 | 0.244 | 0.0050 | 0.0010 | 0.050 | 0.000100 | 0.0050 | 0.00070 | 0.0010 | 1.200 | 0.0010 | 0.0001 | 0.0010 | 0.0092 | 0.037 | 0.0020 | 0.00030 | 0.0050 | 0.0010 | 0.0129 |
| | Median | 7.00 | 131.5 | 61.8 | 18.5 | 4.1 | 0.050 | 0.038 | 0.050 | 0.020 | 0.0020 | 0.010 | 0.042 | 0.00050 | 0.0010 | 0.010 | 0.00040 | 0.00175 | 0.00050 | 0.0010 | 0.345 | 0.0005 | 0.00005 | 0.0008 | 0.0010 | 0.0217 | 0.00100 | 0.00005 | 0.0028 | 0.0008 | 0.0035 |
| | St Dev. | 0.30 | 22.1 | 11.6 | 7.1 | 3.3 | 0.056 | 0.030 | 0.030 | 0 | 0.0054 | 0.058 | 0.0009 | 0.00025 | 0.018 | 0.00038 | 0.00185 | 0.00017 | 0.00021 | 0.271 | 0.00034 | 0.00004 | 0.00038 | 0.00117 | 0.00682 | 0.00064 | 0.00019 | 0.0025 | 0.00032 | 0.0027 | |
| | N | 28 | 28 | 23 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 25 | 28 | 28 | 23 | 28 | 28 | 28 | 28 | |
| 75th % | 7.18 | 150.3 | 68.5 | 26.5 | 6.4 | 0.091 | 0.100 | 0.100 | 0.020 | 0.0050 | 0.016 | 0.067 | 0.00053 | 0.0010 | 0.022 | 0.000100 | 0.0050 | 0.00050 | 0.0010 | 0.430 | 0.0006 | 0.0001 | 0.0010 | 0.0020 | 0.0266 | 0.0020 | 0.00017 | 0.0050 | 0.0010 | 0.0050 | |
| SW6 | Min | 6.87 | 95.5 | 48.0 | 10.5 | 1.0 | 0.020 | 0.030 | 0.030 | 0.010 | 0.0020 | 0.0023 | 0.030 | 0.0004 | 0.00064 | 0.00087 | 0.00009 | 0.00018 | 0.00083 | 0.130 | 0.00009 | 0.000010 | 0.00009 | 0.0010 | 0.0141 | 0.0002 | 0.000004 | 0.00002 | 0.00043 | 0.0029 | |
| | Max | 8.65 | 456.0 | 270.0 | 41.0 | 238.0 | 0.77 | 0.145 | 0.300 | 0.020 | 0.0050 | 0.038 | 1.44 | 0.0050 | 0.0040 | 0.050 | 0.000100 | 0.0050 | 0.0032 | 0.0041 | 6.74 | 0.0011 | 0.0001 | 0.0011 | 0.0040 | 0.208 | 0.0020 | 0.00030 | 0.0050 | 0.0039 | 0.046 |
| | Median | 7.78 | 240.0 | 122.0 | 20.7 | 8.2 | 0.050 | 0.065 | 0.035 | 0.020 | 0.0020 | 0.009 | 0.150 | 0.00050 | 0.0010 | 0.018 | 0.00020 | 0.0012 | 0.00050 | 0.0010 | 0.560 | 0.0005 | 0.00010 | 0.0010 | 0.0020 | 0.043 | 0.001 | 0.00005 | 0.0010 | 0.0010 | 0.0042 |
| | St Dev. | 0.45 | 106.6 | 66.5 | 6.5 | 52.2 | 0.15 | 0.036 | 0.073 | 0.01 | 0.0041 | 0.346 | 0.0010 | 0.00081 | 0.017 | 0.00041 | 0.00194 | 0.00057 | 0.00008 | 0.132 | 0.00033 | 0.00005 | 0.00031 | 0.00083 | 0.055 | 0.00007 | 0.00013 | 0.0022 | 0.0009 | 0.009 | |
| | N | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| 75th % | 7.98 | 352.5 | 211.0 | 24.2 | 21.4 | 0.058 | 0.100 | 0.100 | 0.020 | 0.0050 | 0.018 | 0.384 | 0.00060 | 0.0018 | 0.050 | 0.000100 | 0.00500 | 0.00055 | 0.0013 | 0.90 | 0.0010 | 0.0001 | 0.0010 | 0.0023 | 0.089 | 0.0020 | 0.00030 | 0.0050 | 0.0019 | 0.0050 | |
| SW7A | Min | 7.58 | 202.0 | 110.0 | 8.6 | 2.0 | 0.020 | 0.030 | 0.030 | 0.005 | 0.0020 | 0.0023 | 0.018 | 0.0004 | 0.00050 | 0.010 | 0.00005 | 0. | | | | | | | | | | | | | |

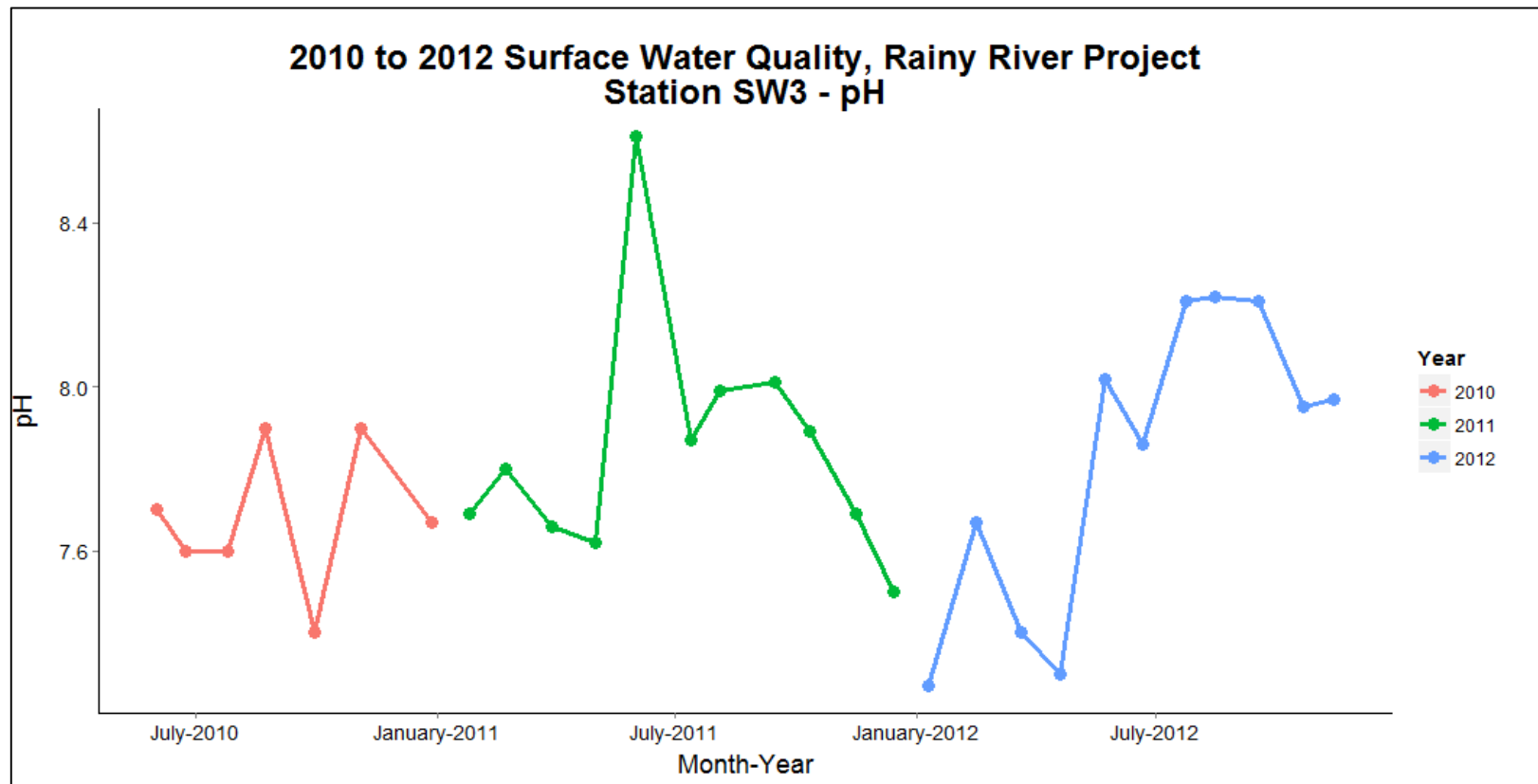


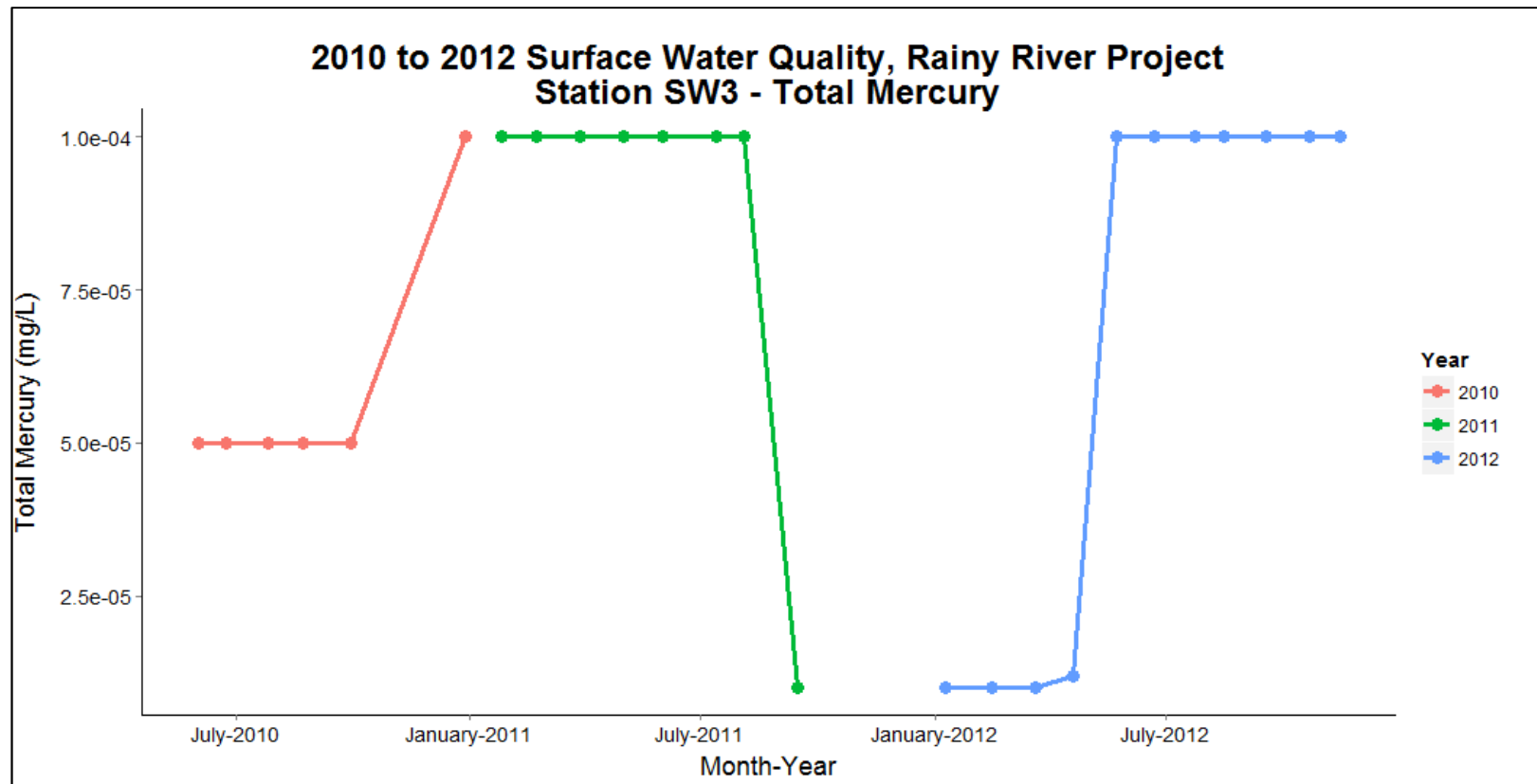












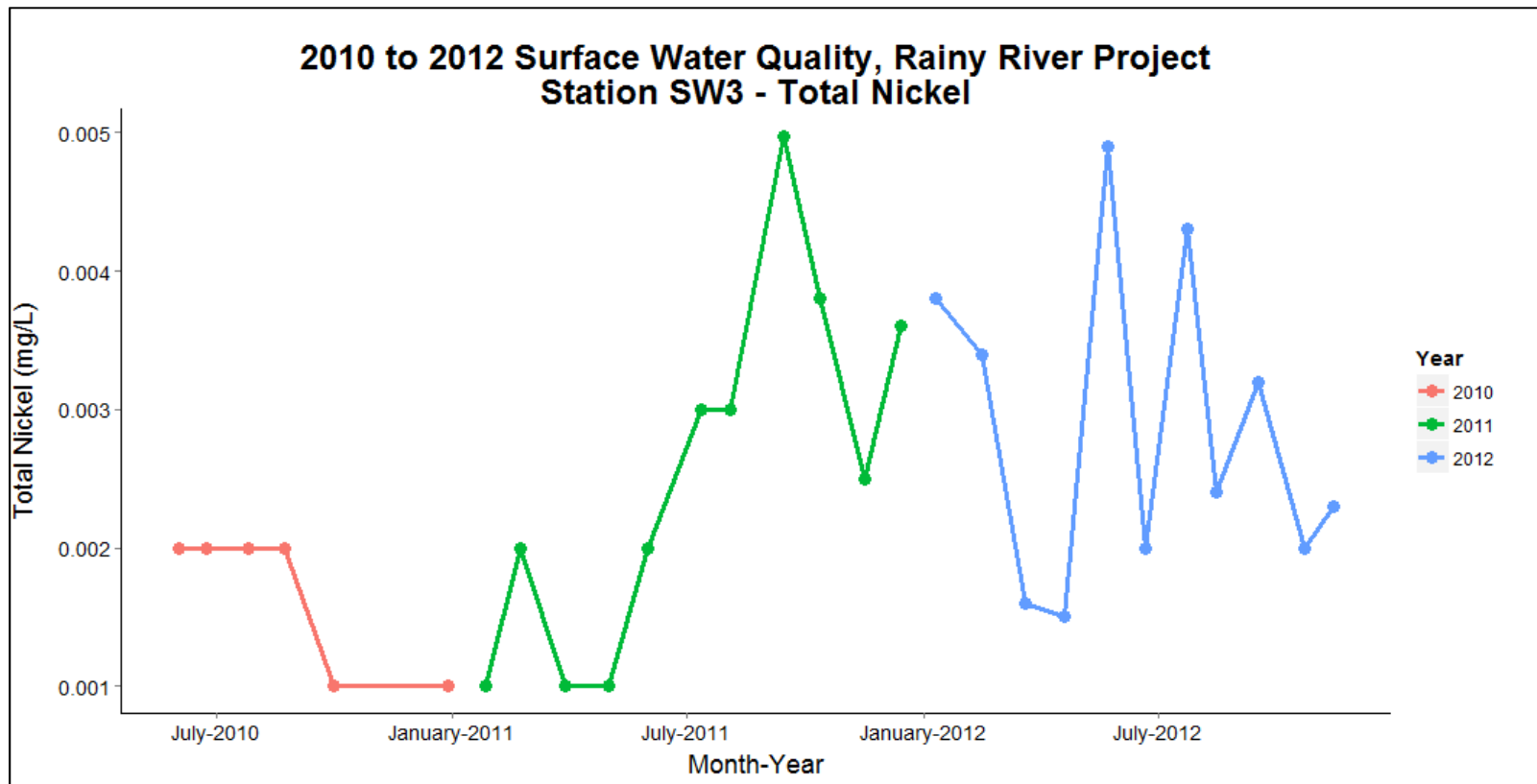


Table 5-4: RRP Monthly Surface Water Quality Monitoring Stations

| Station | Description | Function (potential longer term function) |
|---------|---|---|
| SW1 | Pinewood River 0.3 km upstream of confluence with Clark Creek (Teeple Drain) | Background data for Pinewood River |
| SW2 | West Creek above Highway 600 | Background data for West Creek (this portion of West Creek to be diverted by RRP development) |
| SW3 | Pinewood River at Pinewood River Road approximately 3 km downstream of confluence with Loslo Creek (Cowser Drain) | Pinewood River downstream station (permanent downstream station) |
| SW4 | Unnamed Creek which drains Muskrat Lake, Rainy Lake catchment | Small creek control site outside of RRP influence (permanent reference station) |
| SW7A | West Creek above confluence with Pinewood River | Background data for West Creek (this portion of West Creek to be diverted by RRP development) |
| SW10 | Pinewood River at Highway 600 | Long term Pinewood River control station, positioned upstream of all proposed developments (permanent upstream station) |
| SW11 | Clark Creek (Teeple Drain) 1.5 km north of Township landfill | Background data for Clark Creek (Clark Creek / Teeple Drain to be displaced by RRP development) |
| SW12A | Marr Creek 3.8 km above Highway 600 | Background data for Marr Creek (Marr Creek to be displaced by RRP development) |
| SW13 | Loslo Creek above Highway 600 | Background data for Loslo Creek (Loslo Creek to be extensively displaced / modified by RRP development) |
| SW14 | West Creek 2.5 km above Highway 600 | Background data for West Creek (this portion of West Creek to be diverted by RRP development) |
| SW15 | Pinewood River approximately 2 km above confluence with Rainy River | Pinewood River furthest downstream station (permanent downstream station) |
| SW16 | Rainy River approximately 40 km upstream of confluence with Pinewood River | Rainy River upstream station (permanent upstream station) |
| SW17 | Rainy River approximately 12 km downstream of confluence with Pinewood River | Rainy River downstream station (permanent downstream station) |
| SW18 | Marr Creek at Highway 600 | Background data for Marr Creek (Marr Creek to be displaced by RRP development) |

2022 Annual Surface Water Report
Appendix C

Monthly Surface Water Quality, Discharge Rates, Mixing Ratios and
Effluents Water Quality

Table C1: January 2022 Surface Water Quality for Selected Parameters

| Receiver | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|-----------------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|--------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
| | Unit | pH units | °C | µS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| ECA Benchmarks | | | | | | 0.02 | 0.01 | 0.008 | 0.005 | 0.008 | 0.025 | 0.09 | | 0.075 | 0.0001 | 0.001 | 0.0009 | 0.30 | 0.0002 | |
| Pinewood River | SW20 | 6.66 | 0.6 | 230 | 120 | <0.001 | 0.0006 | 0.0008 | <0.0001 | 0.00015 | 0.0010 | 0.0055 | 3.5 | 0.176 | 0.000013 | 0.0007 | 0.00019 | 0.49 | 0.000005 | 0.025 |
| | SW10 | 7.78 | 2.0 | 281 | 149 | <0.001 | 0.0009 | 0.0008 | 0.0005 | 0.00005 | 0.0013 | 0.0032 | 5.5 | 0.269 | 0.000023 | 0.0008 | 0.00030 | 0.77 | 0.000005 | 0.040 |
| | SW21A | 6.88 | 7.0 | 393 | 196 | <0.001 | 0.0012 | 0.0005 | 0.0005 | 0.00011 | 0.0020 | 0.0020 | 6.0 | 0.135 | 0.000013 | 0.0006 | 0.00108 | 1.41 | 0.000005 | 0.120 |
| | SW22A | 6.33 | 0.02 | 394 | 196 | <0.001 | 0.0012 | 0.0009 | 0.0002 | 0.00017 | 0.0020 | 0.0090 | 4.0 | 0.128 | 0.000022 | 0.0007 | 0.00092 | 1.26 | 0.000005 | 0.100 |
| | SW03 | 6.67 | 7.0 | 394 | 208 | <0.001 | 0.0012 | 0.0009 | 0.0002 | 0.00016 | 0.0022 | 0.0045 | 5.5 | 0.207 | 0.000019 | 0.0008 | 0.00075 | 1.26 | 0.000005 | 0.095 |
| | SW23 | 6.82 | 7.0 | 367 | 194 | <0.001 | 0.0013 | 0.0016 | 0.0004 | 0.00032 | 0.0026 | 0.0045 | 9.0 | 0.448 | 0.000024 | 0.0011 | 0.00074 | 1.45 | 0.000005 | 0.085 |
| | SW24 | 6.71 | 0.0 | 367 | 191 | <0.001 | 0.0013 | 0.0019 | 0.0003 | 0.00029 | 0.0025 | 0.005 | 9.5 | 0.322 | 0.000020 | 0.0012 | 0.00068 | 1.33 | 0.000005 | 0.070 |
| SW15 | 6.98 | 7.0 | 308 | 165 | <0.001 | 0.0013 | 0.0019 | 0.0003 | 0.00035 | 0.0024 | 0.0055 | 6.5 | 0.443 | 0.000030 | 0.0012 | 0.00054 | 1.28 | 0.000005 | 0.050 | |
| Clark Creek | SW28A | | | | | | | | | | | | | | | | | | | |
| West Creek | SW02 | 6.12 | 0.0 | 149 | 91.8 | <0.001 | 0.0009 | 0.0004 | 0.0008 | 0.00017 | 0.0008 | 0.0040 | 1.0 | 0.096 | 0.000017 | 0.0004 | 0.00068 | 0.68 | 0.000005 | 0.010 |
| | SW25 | 7.12 | 0.9 | 290 | 150 | <0.001 | 0.0010 | 0.0019 | 0.0004 | 0.00062 | 0.0018 | 0.0135 | 13.0 | 0.231 | 0.000015 | 0.0007 | 0.00028 | 0.62 | 0.000005 | 0.030 |
| | SW26 | 6.98 | 1.0 | 359 | 186 | <0.001 | 0.0014 | 0.0022 | 0.0002 | 0.00014 | 0.0016 | 0.0325 | 2.0 | 0.206 | 0.000012 | 0.0007 | 0.00022 | 0.55 | 0.000005 | 0.030 |
| Loslo Creek | SW27 | 7.11 | 0.00 | 385 | 197 | <0.001 | 0.0012 | 0.0022 | 0.0003 | 0.00015 | 0.0016 | 0.0185 | 6.0 | 0.207 | 0.000015 | 0.0006 | 0.00020 | 0.52 | 0.000005 | 0.025 |
| Tait Creek | SW29 | | | | | | | | | | | | | | | | | | | |
| Rainy River | SW16 | 6.33 | 0.00 | 70 | 27 | <0.001 | 0.0004 | 0.0009 | <0.0001 | 0.00004 | 0.0006 | 0.0005 | 2.5 | 0.052 | 0.000003 | 0.0004 | 0.00005 | 0.09 | 0.000005 | 0.010 |
| | SW17 | 7.26 | 0.00 | 89.6 | 36 | <0.001 | 0.0004 | 0.0010 | <0.0001 | 0.00006 | 0.0006 | 0.0020 | 3.0 | 0.094 | 0.000004 | 0.0003 | 0.00008 | 0.17 | 0.000005 | 0.020 |

Table C2: February 2022 Surface Water Quality for Selected Parameters

| Receiver | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|-----------------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|--------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
| | Unit | pH units | °C | µS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| ECA Benchmarks | | | | | | 0.02 | 0.01 | 0.008 | 0.005 | 0.008 | 0.025 | 0.09 | | | | | | | | |
| Pinewood River | SW20 | 5.96 | 2.0 | 257 | 140 | 0.001 | 0.0007 | 0.0016 | 0.0006 | 0.00031 | 0.0013 | 0.0115 | 11.0 | 0.200 | 0.000028 | 0.0008 | 0.00046 | 0.85 | 0.000005 | 0.025 |
| | SW10 | 6.67 | 0.2 | 285 | 157 | 0.001 | 0.0009 | 0.0014 | 0.0004 | 0.00021 | 0.0015 | 0.0040 | 6.0 | 0.161 | 0.000017 | 0.0006 | 0.00040 | 0.82 | 0.000005 | 0.040 |
| | SW21A | 6.61 | 0.4 | 374 | 189 | 0.001 | 0.0011 | 0.0007 | 0.0009 | 0.00018 | 0.0017 | 0.0025 | 8.5 | 0.216 | 0.000014 | 0.0007 | 0.00104 | 1.64 | 0.000005 | 0.125 |
| | SW22A | 8.03 | 0.0 | 383 | 195 | 0.001 | 0.0011 | 0.0007 | 0.0008 | 0.00014 | 0.0017 | 0.0055 | 5.0 | 0.133 | 0.000014 | 0.0006 | 0.00101 | 1.50 | 0.000005 | 0.110 |
| | SW03 | | | | | | | | | | | | | | | | | | | |
| | SW23 | 6.73 | 1.0 | 370 | 203 | 0.001 | 0.0014 | 0.0018 | 0.0013 | 0.00044 | 0.0029 | 0.0055 | 11.5 | 0.542 | 0.000026 | 0.0015 | 0.00106 | 1.93 | 0.000005 | 0.100 |
| | SW24 | 6.63 | 0.0 | 373 | 208 | 0.001 | 0.0013 | 0.0016 | 0.0015 | 0.00043 | 0.0028 | 0.0055 | 13.0 | 0.346 | 0.000020 | 0.0011 | 0.00099 | 1.68 | 0.000005 | 0.075 |
| SW15 | 6.49 | 1.0 | 334 | 185 | 0.001 | 0.0015 | 0.0022 | 0.0010 | 0.00048 | 0.0027 | 0.0065 | 9 | 0.328 | 0.000037 | 0.0009 | 0.00061 | 1.66 | 0.000005 | 0.065 | |
| Clark Creek | SW28A | | | | | | | | | | | | | | | | | | | |
| West Creek | SW02 | 6.81 | 0.03 | 202 | 137 | 0.001 | 0.0014 | 0.0031 | 0.0015 | 0.00084 | 0.0018 | 0.0150 | 18.0 | 0.247 | 0.000044 | 0.0005 | 0.00086 | 1.16 | 0.000005 | 0.020 |
| | SW25 | 7.24 | 0.5 | 387 | 208 | 0.001 | 0.0011 | 0.0034 | 0.0010 | 0.00031 | 0.0020 | 0.0135 | 12.0 | 0.259 | 0.000018 | 0.0009 | 0.00032 | 0.58 | 0.000005 | 0.035 |
| | SW26 | 7.17 | 1.0 | 551 | 304 | 0.001 | 0.0019 | 0.0055 | 0.0010 | 0.00018 | 0.0022 | 0.1050 | 9.5 | 0.171 | 0.000017 | 0.0006 | 0.00034 | 0.60 | 0.000005 | 0.020 |
| Loslo Creek | SW27 | | | | | | | | | | | | | | | | | | | |
| Tait Creek | SW29 | | | | | | | | | | | | | | | | | | | |
| Rainy River | SW16 | 5.41 | 1.0 | 65.2 | 27.6 | 0.001 | 0.0004 | 0.0009 | 0.0005 | 0.00004 | 0.0005 | 0.0015 | 44.0 | 0.052 | 0.000004 | 0.0003 | 0.00004 | 0.09 | 0.000005 | 0.005 |
| | SW17 | 5.96 | 0.1 | 87.4 | 37.2 | 0.001 | 0.0004 | 0.0010 | 0.0003 | 0.00006 | 0.0006 | 0.0010 | 34.0 | 0.073 | 0.000010 | 0.0004 | 0.00007 | 0.14 | 0.000005 | 0.005 |

Table C3: March 2022 Surface Water Quality for Selected Parameters

| Receiver | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|-----------------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
| | Unit | pH units | °C | µS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| ECA Benchmarks | | | | | | | | | | | | | | | | | | | | |
| Pinewood River | SW20 | 6.53 | 0.0 | 238 | 125 | 0.001 | 0.0006 | 0.0009 | 0.0001 | 0.00023 | 0.0012 | 0.0060 | 11.5 | 0.259 | 0.000009 | 0.0008 | 0.00041 | 0.85 | 0.000005 | 0.045 |
| | SW10 | 6.70 | 0.2 | 289 | 154 | 0.001 | 0.0008 | 0.0010 | 0.0001 | 0.00042 | 0.0014 | 0.0565 | 3.5 | 0.199 | 0.000007 | 0.0007 | 0.00035 | 0.77 | 0.000005 | 0.035 |
| | SW21A | 7.80 | 0.1 | 370 | 193 | 0.001 | 0.0010 | 0.0005 | 0.0001 | 0.00015 | 0.0019 | 0.0050 | 4.0 | 0.128 | 0.000008 | 0.0007 | 0.00090 | 1.33 | 0.000005 | 0.110 |
| | SW22A | 7.09 | 0.0 | 383 | 202 | 0.001 | 0.0010 | 0.0008 | 0.0004 | 0.00018 | 0.0019 | 0.0135 | 3.5 | 0.159 | 0.000013 | 0.0006 | 0.00086 | 1.26 | 0.000005 | 0.110 |
| | SW03 | 7.00 | 0.3 | 380 | 197 | 0.001 | 0.0011 | 0.0008 | 0.0001 | 0.00025 | 0.0022 | 0.0060 | 6.5 | 0.222 | 0.000013 | 0.0009 | 0.00090 | 1.56 | 0.000005 | 0.130 |
| | SW23 | 6.93 | 0.5 | 380 | 198 | 0.001 | 0.0012 | 0.0013 | 0.0001 | 0.00041 | 0.0024 | 0.0045 | 8.0 | 0.263 | 0.000020 | 0.0009 | 0.00088 | 1.85 | 0.000005 | 0.105 |
| | SW24 | 6.83 | 0.0 | 376 | 201 | 0.001 | 0.0012 | 0.0013 | 0.0001 | 0.00036 | 0.0025 | 0.0040 | 7.5 | 0.270 | 0.000017 | 0.0009 | 0.00086 | 1.81 | 0.000005 | 0.105 |
| | SW15 | 7.00 | 0.6 | 280 | 148 | 0.001 | 0.0014 | 0.0024 | 0.0001 | 0.00052 | 0.0028 | 0.0045 | 8.5 | 0.611 | 0.000030 | 0.0016 | 0.00064 | 1.63 | 0.000005 | 0.080 |
| Clark Creek | SW28A | | | | | | | | | | | | | | | | | | | |
| West Creek | SW02 | 6.09 | 2.0 | 205 | 121 | 0.001 | 0.0010 | 0.0064 | 0.0006 | 0.00062 | 0.0022 | 0.0275 | 20.5 | 0.201 | 0.000046 | 0.0018 | 0.00091 | 1.28 | 0.000005 | 0.045 |
| | SW25 | 6.96 | 0.2 | 337 | 173 | 0.001 | 0.0021 | 0.0086 | 0.0001 | 0.00215 | 0.0058 | 0.0520 | 102.0 | 2.630 | 0.000099 | 0.0054 | 0.00242 | 3.88 | 0.000005 | 0.170 |
| | SW26 | | | | | | | | | | | | | | | | | | | |
| Loslo Creek | SW27 | | | | | | | | | | | | | | | | | | | |
| Tait Creek | SW29 | | | | | | | | | | | | | | | | | | | |
| Rainy River | SW16 | 7.92 | 0.8 | 70.2 | 30.2 | 0.001 | 0.0004 | 0.0013 | 0.0001 | 0.00012 | 0.0009 | 0.004 | 4.0 | 0.124 | 0.000025 | 0.0005 | 0.00009 | 0.19 | 0.000005 | 0.015 |
| | SW17 | 7.09 | 0.3 | 81.4 | 33.3 | 0.001 | 0.0004 | 0.0011 | 0.0001 | 0.00008 | 0.0008 | 0.0005 | 2.0 | 0.086 | 0.000010 | 0.0007 | 0.00007 | 0.16 | 0.000005 | 0.010 |

Table C4: April 2022 Surface Water Quality for Selected Parameters

| Receiver | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|-----------------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|-------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
| | Unit | pH units | °C | µS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| ECA Benchmarks | | | | | | | | | | | | | | | | | | | | |
| Pinewood River | SW20 | 7.21 | 0.0 | 250 | 96.4 | 0.001 | 0.0005 | 0.0012 | 0.0007 | 0.00019 | 0.0013 | 0.0035 | 2.0 | 0.444 | 0.000009 | 0.0007 | 0.00022 | 0.49 | 0.000005 | 0.020 |
| | SW10 | 7.37 | 0.4 | 206 | 88.7 | 0.001 | 0.0006 | 0.0017 | 0.0006 | 0.00029 | 0.0016 | 0.0035 | 9.5 | 0.606 | 0.000014 | 0.0012 | 0.00034 | 0.66 | 0.000005 | 0.080 |
| | SW21A | | | | | | | | | | | | | | | | | | | |
| | SW22A | 7.19 | 0.0 | 233 | 105 | 0.001 | 0.0006 | 0.0014 | 0.0006 | 0.00018 | 0.0012 | 0.0040 | 3.0 | 0.401 | 0.000006 | 0.0007 | 0.00024 | 0.48 | 0.000005 | 0.030 |
| | SW03 | 6.92 | 0.2 | 236 | 106 | 0.001 | 0.0006 | 0.0013 | 0.0006 | 0.00017 | 0.0012 | 0.0045 | 6.0 | 0.325 | 0.000005 | 0.0007 | 0.00022 | 0.41 | 0.000005 | 0.035 |
| | SW23 | 6.68 | 0.0 | 234 | 110 | 0.001 | 0.0006 | 0.0013 | 0.0007 | 0.00016 | 0.0013 | 0.0045 | 2.5 | 0.299 | 0.000006 | 0.0006 | 0.00026 | 0.48 | 0.000005 | 0.035 |
| | SW24 | 6.69 | 0.1 | 234 | 110 | 0.001 | 0.0006 | 0.0013 | 0.0007 | 0.00017 | 0.0013 | 0.0025 | 3.5 | 0.353 | 0.000002 | 0.0007 | 0.00026 | 0.52 | 0.000005 | 0.035 |
| | SW15 | 6.75 | 1.0 | 163 | 69.9 | 0.001 | 0.0018 | 0.0042 | 0.0008 | 0.00028 | 0.0027 | 0.0055 | 9.5 | 0.439 | 0.000007 | 0.0012 | 0.00029 | 0.41 | 0.000005 | 0.385 |
| Clark Creek | SW28A | 7.72 | 1.0 | 213 | 113 | 0.001 | 0.0008 | 0.0012 | 0.0006 | 0.00024 | 0.0013 | 0.0020 | 6.5 | 0.342 | 0.000007 | 0.0008 | 0.00039 | 0.70 | 0.000005 | 0.010 |
| West Creek | SW02 | 6.95 | 0.2 | 129 | 76.4 | 0.001 | 0.0005 | 0.0010 | 0.0006 | 0.00019 | 0.0009 | 0.0035 | 0.5 | 0.305 | 0.000002 | 0.0006 | 0.00015 | 0.39 | 0.000005 | 0.005 |
| | SW25 | 7.24 | 2.0 | 212 | 112 | 0.001 | 0.0005 | 0.0021 | 0.0005 | 0.00027 | 0.0013 | 0.0060 | 0.5 | 0.443 | 0.000006 | 0.0008 | 0.00022 | 0.50 | 0.000005 | 0.005 |
| | SW26 | 7.32 | 3.0 | 221 | 117 | 0.001 | 0.0006 | 0.0024 | 0.0009 | 0.00033 | 0.0015 | 0.0120 | 1.0 | 0.612 | 0.000011 | 0.0011 | 0.00030 | 0.65 | 0.000005 | 0.010 |
| Loslo Creek | SW27 | 6.98 | 0.0 | 232 | 121 | 0.001 | 0.0005 | 0.0018 | 0.0003 | 0.00024 | 0.0013 | 0.0090 | 1.0 | 0.429 | 0.000009 | 0.0008 | 0.00021 | 0.45 | 0.000005 | 0.010 |
| Tait Creek | SW29 | | | | | | | | | | | | | | | | | | | |
| Rainy River | SW16 | 6.72 | 2.0 | 98.4 | 40.5 | 0.001 | 0.0005 | 0.0011 | 0.0005 | 0.0001 | 0.0008 | 0.0015 | 4.5 | 0.147 | 0.000004 | 0.0005 | 0.00014 | 0.21 | 0.000005 | 0.045 |
| | SW17 | 6.57 | 2.0 | 135 | 60.6 | 0.001 | 0.0005 | 0.0012 | 0.0006 | 0.00013 | 0.0010 | 0.0020 | 7.0 | 0.203 | 0.000002 | 0.0005 | 0.00023 | 0.27 | 0.000005 | 0.040 |

Table C5: May 2022 Surface Water Quality for Selected Parameters

| Receiver | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total | |
|-----------------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|--------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|--|
| | Unit | pH units | °C | µS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| ECA Benchmarks | | | | | | 0.02 | 0.01 | 0.008 | 0.005 | 0.008 | 0.025 | 0.09 | | 0.075 | 0.0001 | 0.001 | 0.0009 | 0.30 | 0.0002 | | |
| Pinewood River | SW20 | 6.21 | 7.0 | 107 | 49.6 | 0.001 | 0.00054 | 0.0012 | 0.0001 | 0.00026 | 0.0012 | 0.0048 | 5.5 | 0.436 | 0.000012 | 0.0006 | 0.00019 | 0.47 | 0.000005 | 0.020 | |
| | SW10 | 6.11 | 6.0 | 105 | 50.8 | 0.001 | 0.00056 | 0.0013 | 0.0001 | 0.00026 | 0.0013 | 0.0034 | 6.5 | 0.492 | 0.000014 | 0.0007 | 0.00023 | 0.55 | 0.000005 | 0.030 | |
| | SW21A | 6.89 | 6.0 | 138 | 67.7 | 0.001 | 0.00061 | 0.0014 | 0.0010 | 0.00018 | 0.0013 | 0.0038 | 3.0 | 0.348 | 0.000010 | 0.0005 | 0.00016 | 0.43 | 0.000005 | 0.028 | |
| | SW22A | 6.93 | 6.0 | 212 | 90.2 | 0.001 | 0.00061 | 0.0017 | 0.0011 | 0.00020 | 0.0012 | 0.0024 | 3.5 | 0.453 | 0.000009 | 0.0006 | 0.00024 | 0.45 | 0.000005 | 0.030 | |
| | SW03 | 6.75 | 5.0 | 196 | 86.4 | 0.001 | 0.00064 | 0.0030 | 0.0001 | 0.00016 | 0.0016 | 0.0032 | 3.5 | 0.376 | 0.000017 | 0.0005 | 0.00020 | 0.37 | 0.000005 | 0.028 | |
| | SW23 | 6.65 | 4.0 | 129 | 60.9 | 0.001 | 0.00061 | 0.0030 | 0.0001 | 0.00018 | 0.0025 | 0.0026 | 4.0 | 0.374 | 0.000014 | 0.0005 | 0.00019 | 0.43 | 0.000005 | 0.028 | |
| | SW24 | 6.86 | 6.0 | 136 | 61.9 | 0.001 | 0.00069 | 0.0015 | 0.0001 | 0.00022 | 0.0012 | 0.0044 | 4.0 | 0.377 | 0.000013 | 0.0004 | 0.00020 | 0.42 | 0.000005 | 0.030 | |
| Clark Creek | SW15 | 6.87 | 6.0 | 127 | 61.2 | 0.001 | 0.00072 | 0.0016 | 0.0001 | 0.00042 | 0.0016 | 0.0052 | 17.5 | 0.581 | 0.000021 | 0.0010 | 0.00040 | 0.73 | 0.000005 | 0.036 | |
| West Creek | SW28A | 6.05 | 8.0 | 85.2 | 44.5 | 0.001 | 0.00045 | 0.0008 | 0.0004 | 0.00016 | 0.0008 | 0.0022 | 3.5 | 0.270 | 0.000006 | 0.0004 | 0.00012 | 0.34 | 0.000005 | 0.016 | |
| | SW02 | 6.08 | 3.0 | 62.2 | 33.6 | 0.008 | 0.00039 | 0.0007 | 0.0001 | 0.00010 | 0.0005 | 0.0012 | 1.0 | 0.168 | 0.000005 | 0.0001 | 0.00007 | 0.19 | 0.000005 | 0.010 | |
| | SW25 | 6.72 | 5.0 | 103 | 53.1 | 0.001 | 0.00041 | 0.0013 | 0.0001 | 0.00016 | 0.0007 | 0.0046 | 2.0 | 0.311 | 0.000013 | 0.0004 | 0.00012 | 0.29 | 0.000005 | 0.014 | |
| Loslo Creek | SW26 | 6.62 | 4.0 | 0.4 | 54.4 | 0.001 | 0.00039 | 0.0014 | 0.0001 | 0.00016 | 0.0008 | 0.0046 | 2.0 | 0.318 | 0.000008 | 0.0004 | 0.00012 | 0.31 | 0.000005 | 0.018 | |
| | SW27 | 7.16 | 10.0 | 152 | 74.6 | 0.001 | 0.00042 | 0.0014 | 0.0003 | 0.00016 | 0.0008 | 0.0046 | 2.0 | 0.257 | 0.000009 | 0.0003 | 0.00011 | 0.24 | 0.000005 | 0.022 | |
| Tait Creek | SW29 | 7.10 | 4.0 | 129 | 73.7 | 0.001 | 0.00089 | 0.0182 | 0.0001 | 0.00004 | 0.0034 | 0.0022 | 1.0 | 0.100 | 0.000016 | 0.0001 | 0.00024 | 0.22 | 0.000005 | 0.016 | |
| Rainy River | SW16 | | | | | | | | | | | | | | | | | | | | |
| | SW17 | 6.98 | 7.0 | 218 | 119 | 0.001 | 0.00048 | 0.0017 | 0.0001 | 0.00012 | 0.0014 | 0.0042 | 3.5 | 0.233 | 0.000015 | 0.0004 | 0.00014 | 0.27 | 0.000005 | 0.030 | |

Table C6: June 2022 Surface Water Quality for Selected Parameters

| Receiver | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total | |
|-----------------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|--------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|--|
| | Unit | pH units | °C | µS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| ECA Benchmarks | | | | | | 0.02 | 0.01 | 0.008 | 0.005 | 0.008 | 0.025 | 0.09 | | 0.075 | 0.0001 | 0.001 | 0.0009 | 0.30 | 0.0002 | | |
| Pinewood River | SW20 | 7.03 | 15.0 | 176 | 91.2 | 0.001 | 0.0010 | 0.0009 | 0.0007 | 0.00015 | 0.0016 | 0.0045 | 3.0 | 0.231 | 0.000006 | 0.0007 | 0.00021 | 0.48 | 0.000005 | 0.015 | |
| | SW10 | 6.98 | 17.0 | 159 | 88.7 | 0.001 | 0.0012 | 0.0011 | 0.0010 | 0.00016 | 0.0017 | 0.0040 | 4.0 | 0.223 | 0.000010 | 0.0007 | 0.00023 | 0.51 | 0.000005 | 0.045 | |
| | SW21A | 7.08 | 18.0 | 260 | 129 | 0.001 | 0.0012 | 0.0011 | 0.0005 | 0.00009 | 0.0015 | 0.0050 | 3.5 | 0.099 | 0.000020 | 0.0005 | 0.00023 | 0.44 | 0.000005 | 0.040 | |
| | SW22A | 7.06 | 17.0 | 468 | 180 | 0.001 | 0.0017 | 0.0014 | 0.0004 | 0.00012 | 0.0016 | 0.0070 | 3.5 | 0.101 | 0.000012 | 0.0005 | 0.00033 | 0.44 | 0.000005 | 0.060 | |
| | SW03 | 6.94 | 15.0 | 360 | 150 | 0.001 | 0.0015 | 0.0017 | 0.0004 | 0.00010 | 0.0015 | 0.0095 | 3.5 | 0.127 | 0.000012 | 0.0005 | 0.00028 | 0.40 | 0.000005 | 0.035 | |
| | SW23 | 6.82 | 15.0 | 241 | 116 | 0.001 | 0.0012 | 0.0014 | 0.0011 | 0.00021 | 0.0017 | 0.0050 | 5.5 | 0.276 | 0.000017 | 0.0007 | 0.00031 | 0.57 | 0.000005 | 0.040 | |
| | SW24 | 6.84 | 15.0 | 0.2 | 134 | 0.001 | 0.0013 | 0.0016 | 0.0008 | 0.00021 | 0.0017 | 0.0035 | 6.5 | 0.272 | 0.000016 | 0.0007 | 0.00033 | 0.59 | 0.000005 | 0.030 | |
| Clark Creek | SW15 | 6.91 | 15.0 | 174 | 87.9 | 0.001 | 0.0013 | 0.0017 | 0.0011 | 0.00041 | 0.002 | 0.0045 | 10.5 | 0.586 | 0.000022 | 0.0012 | 0.00043 | 0.86 | 0.000005 | 0.045 | |
| West Creek | SW28A | 7.45 | 19.0 | 128 | 87.3 | 0.001 | 0.0010 | 0.0009 | 0.0008 | 0.00013 | 0.0011 | 0.0025 | 4.0 | 0.141 | 0.000006 | 0.0005 | 0.00014 | 0.38 | 0.000005 | 0.005 | |
| | SW02 | 6.61 | 14.0 | 86.2 | 54.7 | 0.001 | 0.0006 | 0.0004 | 0.0006 | 0.00006 | 0.0005 | 0.0020 | 1.5 | 0.063 | 0.000001 | 0.0003 | 0.00007 | 0.17 | 0.000005 | 0.005 | |
| | SW25 | 7.48 | 19.0 | 183 | 101 | 0.001 | 0.0009 | 0.0018 | 0.0006 | 0.00015 | 0.0014 | 0.0085 | 2.5 | 0.243 | 0.000010 | 0.0006 | 0.00017 | 0.37 | 0.000005 | 0.005 | |
| Loslo Creek | SW26 | 7.43 | 17.0 | 192 | 105 | 0.001 | 0.0010 | 0.0019 | 0.0005 | 0.00015 | 0.0015 | 0.0115 | 2.5 | 0.242 | 0.000009 | 0.0006 | 0.00018 | 0.41 | 0.000005 | 0.010 | |
| | SW27 | 7.32 | 18.0 | 219 | 119 | 0.001 | 0.0010 | 0.0018 | 0.0006 | 0.00014 | 0.0015 | 0.0075 | 2.5 | 0.231 | 0.000009 | 0.0007 | 0.00018 | 0.38 | 0.000005 | 0.010 | |
| Tait Creek | SW29 | | | | | | | | | | | | | | | | | | | | |
| Rainy River | SW16 | 7.36 | 12.0 | 58.4 | 26.1 | 0.001 | 0.0004 | 0.0011 | 0.0002 | 0.00011 | 0.0007 | 0.0015 | 2.5 | 0.135 | 0.000005 | 0.0008 | 0.000095 | 0.22 | 0.000005 | 0.010 | |
| | SW17 | 6.91 | 15.0 | 79.6 | 38.9 | 0.001 | 0.0005 | 0.0011 | 0.0001 | 0.00010 | 0.0008 | 0.0025 | 1.0 | 0.135 | 0.000008 | 0.0004 | 0.00009 | 0.22 | 0.000005 | 0.015 | |

Table C7: July 2022 Surface Water Quality for Selected Parameters

| Receiver | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|-----------------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|--------------|---------------|-------------|------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
| | Unit | pH units | °C | µS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| ECA Benchmarks | | | | | | 0.02 | 0.01 | 0.008 | 0.005 | 0.008 | 0.025 | 0.09 | | 0.075 | 0.0001 | 0.001 | 0.0009 | 0.30 | 0.0002 | |
| Pinewood River | SW20 | 6.63 | 18.5 | 253 | 123 | 0.00004 | 0.0014 | 0.0006 | 0.002 | 0.00009 | 0.0013 | 0.0040 | 5.0 | 0.104 | 0.000004 | 0.0005 | 0.00027 | 0.50 | 0.000005 | 0.035 |
| | SW10 | 7.14 | 19.5 | 245 | 128 | 0.00014 | 0.0016 | 0.0007 | 0.0005 | 0.00007 | 0.0016 | 0.0025 | 7.0 | 0.073 | 0.000002 | 0.0004 | 0.00026 | 0.47 | 0.000005 | 0.060 |
| | SW21A | 6.84 | 20.8 | 276 | 134 | 0.00004 | 0.0024 | 0.0004 | 0.0008 | 0.00004 | 0.0015 | 0.0010 | 4.0 | 0.034 | 0.000002 | 0.0004 | 0.00052 | 1.01 | 0.000005 | 0.125 |
| | SW22A | 7.01 | 21.0 | 265 | 134 | 0.00007 | 0.0021 | 0.0009 | 0.0006 | 0.00008 | 0.0016 | 0.0030 | 5.5 | 0.142 | 0.000001 | 0.0006 | 0.00033 | 0.81 | 0.000005 | 0.110 |
| | SW03 | 7.26 | 21.0 | 283 | 149 | 0.00026 | 0.0018 | 0.0017 | 0.0001 | 0.00008 | 0.0020 | 0.0015 | 2.0 | 0.089 | 0.000006 | 0.0004 | 0.00024 | 0.43 | 0.000005 | 0.055 |
| | SW23 | 7.34 | 20.5 | 241 | 134 | 0.00035 | 0.0024 | 0.0012 | 0.0005 | 0.00025 | 0.0021 | 0.0025 | 7.0 | 0.238 | 0.000009 | 0.0007 | 0.00052 | 1.07 | 0.000005 | 0.065 |
| | SW24 | 7.29 | 20.7 | 248 | 139 | 0.00035 | 0.0024 | 0.0013 | 0.0005 | 0.00027 | 0.0022 | 0.0025 | 6.0 | 0.238 | 0.000008 | 0.0008 | 0.00052 | 1.07 | 0.000005 | 0.075 |
| SW15 | 7.29 | 20.9 | 249 | 118 | 0.00038 | 0.0019 | 0.0011 | 0.0006 | 0.00016 | 0.002 | 0.0020 | 2.0 | 0.133 | 0.000010 | 0.0004 | 0.00031 | 0.61 | 0.000005 | 0.060 | |
| Clark Creek | SW28A | 7.96 | 16.6 | 513 | 285 | 0.00153 | 0.0019 | 0.0009 | 0.0004 | 0.00017 | 0.0016 | 0.0025 | 8.0 | 0.190 | 0.000008 | 0.0006 | 0.00040 | 0.51 | 0.000005 | 0.020 |
| West Creek | SW02 | 6.94 | 18.4 | 137 | 81.8 | 0.00006 | 0.0012 | 0.0002 | 0.0007 | 0.00003 | 0.0004 | 0.0020 | 1.0 | 0.348 | 0.000009 | 0.0003 | 0.00018 | 0.43 | 0.000005 | 0.010 |
| | SW25 | 7.55 | 21.5 | 278 | 146 | 0.00030 | 0.0013 | 0.0016 | 0.0006 | 0.00005 | 0.0014 | 0.0145 | 4.0 | 0.077 | 0.000001 | 0.0004 | 0.00014 | 0.26 | 0.000005 | 0.025 |
| | SW26 | 7.76 | 21.6 | 322 | 174 | 0.00075 | 0.0015 | 0.0015 | 0.0003 | 0.00002 | 0.0014 | 0.0050 | 3.0 | 0.052 | 0.000017 | 0.0003 | 0.00013 | 0.23 | 0.000005 | 0.015 |
| Loslo Creek | SW27 | 7.35 | 21.0 | 257 | 134 | 0.00011 | 0.0013 | 0.0021 | 0.0008 | 0.00019 | 0.0018 | 0.0075 | 6.0 | 0.446 | 0.000004 | 0.0009 | 0.00022 | 0.54 | 0.000005 | 0.045 |
| Tait Creek | SW29 | | | | | | | | | | | | | | | | | | | |
| Rainy River | SW16 | 6.90 | 17.8 | 58.4 | 24 | 0.00006 | 0.0005 | 0.0010 | 0.002 | 0.00008 | 0.0006 | 0.0015 | 4.5 | 0.093 | 0.000004 | 0.0004 | 0.000080 | 0.16 | 0.000005 | 0.015 |
| | SW17 | 7.05 | 19.6 | 87.8 | 41 | 0.00006 | 0.0008 | 0.0010 | 0.002 | 0.00008 | 0.0008 | 0.0015 | 2.5 | 0.075 | 0.000008 | 0.0004 | 0.00033 | 0.27 | 0.000005 | 0.135 |

Table C8: August 2022 Surface Water Quality for Selected Parameters

| Receiver | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|-----------------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|--------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
| | Unit | pH units | °C | µS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| ECA Benchmarks | | | | | | 0.02 | 0.01 | 0.008 | 0.005 | 0.008 | 0.025 | 0.09 | | 0.075 | 0.0001 | 0.001 | 0.0009 | 0.30 | 0.0002 | |
| Pinewood River | SW20 | 6.82 | 18.9 | 257 | 125 | 0.028 | 0.0022 | 0.0010 | 0.0008 | 0.00032 | 0.0030 | 0.0005 | 14 | 0.397 | 0.000009 | 0.0025 | 0.00070 | 1.23 | 0.000005 | 0.070 |
| | SW10 | 6.83 | 19.7 | 241 | 124 | 0.001 | 0.0019 | 0.0008 | 0.0004 | 0.00014 | 0.0020 | 0.0020 | 3 | 0.114 | 0.000004 | 0.0005 | 0.00028 | 0.70 | 0.000005 | 0.065 |
| | SW21A | 6.56 | 20.1 | 272 | 139 | 0.001 | 0.0022 | 0.0003 | 0.0008 | 0.00004 | 0.0017 | 0.0015 | 3 | 0.019 | 0.000003 | 0.0005 | 0.00041 | 0.64 | 0.000005 | 0.080 |
| | SW22A | 6.68 | 20.0 | 301 | 150 | 0.001 | 0.0020 | 0.0010 | 0.0007 | 0.00020 | 0.0021 | 0.0035 | 8 | 0.275 | 0.000009 | 0.0012 | 0.00038 | 0.67 | 0.000005 | 0.055 |
| | SW03 | 7.02 | 22.7 | 299 | 149 | 0.001 | 0.0020 | 0.0016 | 0.0009 | 0.00258 | 0.0022 | 0.0020 | 5 | 0.074 | 0.000006 | 0.0007 | 0.00032 | 0.52 | 0.000005 | 0.065 |
| | SW23 | 6.87 | 21.3 | 282 | 149 | 0.001 | 0.0030 | 0.0014 | 0.0005 | 0.00042 | 0.0027 | 0.0030 | 43.5 | 0.424 | 0.000012 | 0.0011 | 0.00064 | 1.46 | 0.000005 | 0.095 |
| | SW24 | 6.80 | 21.8 | 288 | 149 | 0.001 | 0.0030 | 0.0013 | 0.0003 | 0.00031 | 0.0026 | 0.0030 | 9 | 0.286 | 0.000010 | 0.0009 | 0.00055 | 1.30 | 0.000005 | 0.085 |
| SW15 | 6.61 | 21.7 | 349 | 141 | 0.001 | 0.0023 | 0.0016 | 0.0003 | 0.00028 | 0.002 | 0.0025 | 6 | 0.242 | 0.000011 | 0.0007 | 0.00060 | 0.96 | 0.000005 | 0.065 | |
| Clark Creek | SW28A | 7.31 | 19.1 | 163 | 93.7 | 0.001 | 0.0019 | 0.0009 | 0.0003 | 0.00037 | 0.0019 | 0.0045 | 25.5 | 0.606 | 0.000007 | 0.0015 | 0.00054 | 1.15 | 0.000005 | 0.030 |
| West Creek | SW02 | 6.71 | 17.9 | 142 | 84.2 | 0.001 | 0.0023 | 0.0002 | 0.0005 | 0.00024 | 0.0010 | 0.0025 | 2 | 0.048 | 0.000001 | 0.0003 | 0.00088 | 1.20 | 0.000005 | 0.010 |
| | SW25 | 7.11 | 18.9 | 252 | 122 | 0.001 | 0.0014 | 0.0015 | 0.002 | 0.00015 | 0.0029 | 0.0090 | 9.5 | 0.204 | 0.000001 | 0.0051 | 0.00028 | 0.64 | 0.000005 | 0.030 |
| | SW26 | 7.22 | 19.1 | 272 | 136 | 0.001 | 0.0016 | 0.0015 | 0.002 | 0.00011 | 0.0016 | 0.0080 | 2 | 0.188 | 0.000001 | 0.0009 | 0.00018 | 0.51 | 0.000005 | 0.010 |
| Loslo Creek | SW27 | | | 298 | 150 | 0.001 | 0.0017 | 0.0014 | 0.0006 | 0.00020 | 0.0016 | 0.0060 | 10 | 0.130 | 0.000010 | 0.0005 | 0.00028 | 0.48 | 0.000005 | 0.030 |
| Tait Creek | SW29 | | | | | | | | | | | | | | | | | | | |
| Rainy River | SW16 | 6.12 | 20.9 | 65.8 | 26.6 | 0.001 | 0.0005 | 0.0010 | 0.002 | 0.00012 | 0.0008 | 0.0015 | 6.5 | 0.167 | 0.000005 | 0.0006 | 0.000130 | 0.27 | 0.000005 | 0.010 |
| | SW17 | 6.12 | 21.3 | 81.6 | 35.6 | 0.001 | 0.0007 | 0.0013 | 0.002 | 0.00030 | 0.0013 | 0.0030 | 16.5 | 0.364 | 0.000008 | 0.0010 | 0.00031 | 0.59 | 0.000005 | 0.030 |

Table C9: September 2022 Surface Water Quality for Selected Parameters

| Receiver | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total | |
|-----------------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|--------------|---------------|-------------|------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|--|
| | Unit | pH units | °C | µS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| ECA Benchmarks | | | | | | 0.02 | 0.01 | 0.008 | 0.005 | 0.008 | 0.025 | 0.09 | | 0.075 | 0.0001 | 0.001 | 0.0009 | 0.30 | 0.0002 | | |
| Pinewood River | SW20 | 6.96 | 16.7 | 329 | 157 | 0.0001 | 0.0018 | 0.0002 | 0.0003 | 0.00007 | 0.0016 | 0.0005 | 2.5 | 0.096 | 0.000001 | 0.0004 | 0.00044 | 0.68 | 0.000005 | 0.061 | |
| | SW10 | 6.74 | 18.0 | 341 | 175 | 0.00004 | 0.0019 | 0.0005 | 0.0001 | 0.00005 | 0.0018 | 0.0025 | 1 | 0.054 | 0.000001 | 0.0005 | 0.00021 | 0.39 | 0.000005 | 0.046 | |
| | SW21A | 8.25 | 17.0 | 407 | 186 | 0.002 | 0.0021 | 0.0004 | 0.002 | 0.00005 | 0.0013 | 0.0035 | 7 | 0.098 | 0.000017 | 0.0005 | 0.00037 | 0.38 | 0.000005 | 0.078 | |
| | SW22A | 7.39 | 17.5 | 382 | 197 | 0.0003 | 0.0020 | 0.0007 | 0.002 | 0.00010 | 0.0016 | 0.0015 | 6 | 0.216 | 0.000017 | 0.0006 | 0.00031 | 0.50 | 0.000005 | 0.074 | |
| | SW03 | 8.03 | 18.3 | 356 | 188 | 0.001 | 0.0025 | 0.0022 | 0.0004 | 0.00024 | 0.0031 | 0.0020 | 5.5 | 0.390 | 0.000006 | 0.0009 | 0.00041 | 0.67 | 0.000005 | 0.073 | |
| | SW23 | 8.35 | 18.2 | 313 | 178 | 0.003 | 0.0035 | 0.0015 | 0.0005 | 0.00041 | 0.0028 | 0.0020 | 7 | 0.458 | 0.000005 | 0.0011 | 0.00061 | 1.25 | 0.000005 | 0.102 | |
| | SW24 | | | | | | | | | | | | | | | | | | | | |
| | SW15 | 8.03 | 21.0 | 195 | 111 | 0.001 | 0.0026 | 0.0015 | 0.0005 | 0.00042 | 0.002 | 0.0020 | 10 | 0.371 | 0.000008 | 0.0009 | 0.00049 | 1.14 | 0.000005 | 0.082 | |
| Clark Creek | SW28A | 7.82 | 16.2 | 354 | 196 | 0.0004 | 0.0018 | 0.0006 | 0.0002 | 0.00015 | 0.0016 | 0.0015 | 16.5 | 0.224 | 0.000005 | 0.0008 | 0.00027 | 0.58 | 0.000005 | 0.022 | |
| West Creek | SW02 | 7.13 | 18.4 | 149 | 90.1 | 0.0002 | 0.0014 | 0.0010 | 0.0005 | 0.00008 | 0.0003 | 0.0015 | 1 | 0.045 | 0.000017 | 0.0004 | 0.00045 | 0.87 | 0.000005 | 0.014 | |
| | SW25 | 7.66 | 18.4 | 314 | 165 | 0.0004 | 0.0014 | 0.0013 | 0.0002 | 0.00015 | 0.0015 | 0.0160 | 4 | 0.247 | 0.000002 | 0.0006 | 0.00022 | 0.52 | 0.000005 | 0.031 | |
| | SW26 | 8.03 | 19.2 | 394 | 211 | 0.001 | 0.0017 | 0.0015 | 0.0002 | 0.00012 | 0.0018 | 0.0060 | 1 | 0.181 | 0.000017 | 0.0007 | 0.00020 | 0.37 | 0.000005 | 0.028 | |
| Loslo Creek | SW27 | 7.39 | 17.5 | 353 | 215 | 0.0002 | 0.0015 | 0.0010 | 0.002 | 0.00010 | 0.0017 | 0.0015 | 4 | 0.140 | 0.000017 | 0.0005 | 0.00019 | 0.35 | 0.000005 | 0.038 | |
| Tait Creek | SW29 | | | | | | | | | | | | | | | | | | | | |
| Rainy River | SW16 | 8.54 | 19.7 | 65.7 | 26.4 | 0.001 | 0.0005 | 0.0009 | 0.002 | 0.00012 | 0.0007 | 0.0030 | 7 | 0.170 | 0.000002 | 0.0006 | 0.000100 | 0.25 | 0.000005 | 0.017 | |
| | SW17 | 8.18 | 19.7 | 77.2 | 33.5 | 0.001 | 0.0007 | 0.0010 | 0.002 | 0.00015 | 0.0008 | 0.0005 | 8.5 | 0.202 | 0.000004 | 0.0007 | 0.00013 | 0.35 | 0.000005 | 0.024 | |

Table C10: October 2022 Surface Water Quality for Selected Parameters

| Receiver | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|-----------------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|--------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
| | Unit | pH units | °C | µS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| ECA Benchmarks | | | | | | 0.02 | 0.01 | 0.008 | 0.005 | 0.008 | 0.025 | 0.09 | | 0.075 | 0.0001 | 0.001 | 0.0009 | 0.30 | 0.0002 | |
| Pinewood River | SW20 | 7.64 | 13.36 | 307 | 156 | 0.01 | 0.0010 | 0.0004 | 0.0001 | 0.0001 | 0.0012 | 0.001 | 6 | 0.062 | 0.000005 | 0.0005 | 0.00024 | 0.34 | 0.00001 | 0.04 |
| | SW10 | 7.86 | 13.21 | 334 | 171 | 0.01 | 0.0011 | 0.0005 | 0.0002 | 0.00004 | 0.0015 | 0.0004 | 2.5 | 0.040 | 0.000003 | 0.0004 | 0.00014 | 0.32 | 0.00001 | 0.03 |
| | SW21A | 7.85 | 15.97 | 374 | 188 | 0.01 | 0.0012 | 0.0003 | 0.0003 | 0.0001 | 0.0011 | 0.001 | 2.5 | 0.018 | 0.000003 | 0.0003 | 0.00021 | 0.16 | 0.00001 | 0.05 |
| | SW22A | 7.64 | 13.66 | 444 | 217 | 0.01 | 0.0011 | 0.0006 | 0.0020 | 0.00004 | 0.0012 | 0.001 | 2 | 0.067 | 0.000004 | 0.0004 | 0.00013 | 0.16 | 0.00001 | 0.03 |
| | SW03 | 6.92 | 14.98 | 359 | 197 | 0.01 | 0.0016 | 0.0018 | 0.0020 | 0.0003 | 0.0025 | 0.004 | 14.5 | 0.455 | 0.000016 | 0.0010 | 0.00038 | 0.64 | 0.00001 | 0.06 |
| | SW23 | 6.8 | 15.11 | 309 | 170 | 0.01 | 0.0016 | 0.0012 | 0.0015 | 0.0003 | 0.0021 | 0.003 | 9.5 | 0.366 | 0.000011 | 0.0010 | 0.00042 | 0.73 | 0.00001 | 0.06 |
| | SW24 | 6.59 | 15.17 | 314 | 170 | 0.01 | 0.0016 | 0.0012 | 0.0007 | 0.0003 | 0.0020 | 0.004 | 9.5 | 0.318 | 0.000013 | 0.0008 | 0.00042 | 0.69 | 0.00001 | 0.05 |
| | SW15 | 6.87 | 16.06 | 216 | 84.4 | 0.01 | 0.0009 | 0.0012 | 0.0003 | 0.0002 | 0.0012 | 0.003 | 7.5 | 0.211 | 0.000015 | 0.0007 | 0.00031 | 0.43 | 0.00001 | 0.05 |
| Clark Creek | SW28A | 8.01 | 12.81 | 383 | 215 | 0.01 | 0.0015 | 0.0011 | 0.0020 | 0.0003 | 0.0015 | 0.003 | 14.5 | 0.303 | 0.000010 | 0.0008 | 0.00032 | 0.52 | 0.00001 | 0.02 |
| West Creek | SW02 | 7.75 | 13.76 | 134 | 79.1 | 0.01 | 0.0007 | 0.0002 | 0.0002 | 0.0001 | 0.0004 | 0.002 | 1.5 | 0.032 | 0.000002 | 0.0004 | 0.00010 | 0.29 | 0.00001 | 0.01 |
| | SW25 | 6.87 | 12.24 | | | | | | | | | | | | | | | | | |
| | SW26 | 6.78 | 11.58 | | | | | | | | | | | | | | | | | |
| Loslo Creek | SW27 | 7.71 | 14.09 | 352 | 192 | 0.01 | 0.0011 | 0.0011 | 0.0006 | 0.0001 | 0.0013 | 0.003 | 3 | 0.091 | 0.000007 | 0.0005 | 0.00017 | 0.29 | 0.00001 | 0.02 |
| Tait Creek | SW29 | | | | | | | | | | | | | | | | | | | |
| Rainy River | SW16 | 5.77 | 15.29 | 61 | 23.9 | 0.01 | 0.0005 | 0.0010 | 0.0001 | 0.0001 | 0.0007 | 0.001 | 5.5 | 0.135 | 0.000007 | 0.0005 | 0.00009 | 0.20 | 0.00001 | 0.01 |
| | SW17 | 5.48 | 15.63 | 78.6 | 36.7 | 0.01 | 0.0007 | 0.0014 | 0.0020 | 0.0002 | 0.0011 | 0.004 | 4.5 | 0.259 | 0.000017 | 0.0008 | 0.00022 | 0.44 | 0.00001 | 0.02 |

Table C11: November 2022 Surface Water Quality for Selected Parameters

| Receiver | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|-----------------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|--------------|---------------|-------------|------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
| | Unit | pH units | °C | µS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| ECA Benchmarks | | | | | | 0.02 | 0.01 | 0.008 | 0.005 | 0.008 | 0.025 | 0.09 | | 0.075 | 0.0001 | 0.001 | 0.0009 | 0.30 | 0.0002 | |
| Pinewood River | SW20 | 6.64 | 1.72 | 330 | 144 | 0.01 | 0.0007 | 0.0006 | 0.0014 | 0.0001 | 0.0013 | 0.002 | 5 | 0.129 | 0.000008 | 0.0008 | 0.0002 | 0.48 | 0.00001 | 0.02 |
| | SW10 | 6.54 | 1.31 | 350 | 169 | 0.01 | 0.0012 | 0.0018 | 0.0013 | 0.00052 | 0.0025 | 0.0052 | 23.5 | 0.639 | 0.000019 | 0.0016 | 0.0010 | 1.42 | 0.00001 | 0.07 |
| | SW21A | 6.8 | 6.75 | 434 | 198 | 0.01 | 0.0011 | 0.0007 | 0.0012 | 0.0001 | 0.0011 | 0.001 | 2.5 | 0.047 | 0.000005 | 0.0005 | 0.0002 | 0.24 | 0.00001 | 0.02 |
| | SW22A | 7.01 | 1.08 | 421 | 194 | 0.01 | 0.0010 | 0.0007 | 0.0011 | 0.00006 | 0.0012 | 0.002 | 3 | 0.073 | 0.000006 | 0.0006 | 0.0002 | 0.26 | 0.00001 | 0.03 |
| | SW03 | 7.1 | 2.22 | 562 | 240 | 0.01 | 0.0009 | 0.0010 | 0.0008 | 0.00012 | 0.0015 | 0.005 | 6 | 0.145 | 0.000010 | 0.0005 | 0.0004 | 0.29 | 0.00001 | 0.05 |
| | SW23 | 6.99 | 2.25 | 565 | 233 | 0.01 | 0.0008 | 0.0010 | 0.0005 | 0.00012 | 0.0016 | 0.004 | 8 | 0.170 | 0.000007 | 0.0006 | 0.0005 | 0.36 | 0.00001 | 0.05 |
| | SW24 | 6.97 | 1.77 | 884 | 337 | 0.01 | 0.0009 | 0.0014 | 0.0005 | 0.00012 | 0.0026 | 0.011 | 7 | 0.156 | 0.000018 | 0.0006 | 0.0010 | 0.53 | 0.00001 | 0.05 |
| SW15 | 7.08 | 1.32 | 537 | 215 | 0.01 | 0.0010 | 0.0017 | 0.0008 | 0.00029 | 0.0018 | 0.005 | 15 | 0.301 | 0.000015 | 0.0009 | 0.0006 | 0.62 | 0.00001 | 0.05 | |
| Clark Creek | SW28A | 6.96 | 0.14 | 193 | 109 | 0.01 | 0.0008 | 0.0007 | 0.0013 | 0.00008 | 0.0010 | 0.002 | 4 | 0.073 | 0.000005 | 0.0006 | 0.0002 | 0.26 | 0.00001 | 0.02 |
| West Creek | SW02 | 6.87 | 0.45 | 97.2 | 57.1 | 0.01 | 0.0005 | 0.0003 | 0.0013 | 0.00006 | 0.0005 | 0.002 | 3 | 0.039 | 0.000004 | 0.0005 | 0.0001 | 0.21 | 0.00001 | 0.05 |
| | SW25 | 6.71 | 0.26 | 261 | 136 | 0.01 | 0.0007 | 0.0011 | 0.0010 | 0.00012 | 0.0011 | 0.009 | 3 | 0.077 | 0.000006 | 0.0005 | 0.0001 | 0.29 | 0.00001 | 0.02 |
| | SW26 | 6.7 | 2.1 | 279 | 148 | 0.01 | 0.0010 | 0.0021 | 0.0010 | 0.00040 | 0.0018 | 0.020 | 6 | 0.465 | 0.000016 | 0.0013 | 0.0004 | 0.89 | 0.00001 | 0.04 |
| Loslo Creek | SW27 | 7.23 | 0.54 | 351 | 172 | 0.01 | 0.0008 | 0.0011 | 0.0012 | 0.00010 | 0.0013 | 0.007 | 3.5 | 0.115 | 0.000007 | 0.0006 | 0.0001 | 0.28 | 0.00001 | 0.01 |
| Tait Creek | SW29 | | | | | | | | | | | | | | | | | | | |
| Rainy River | SW16 | 7.12 | 4.03 | 65.2 | 26.1 | 0.01 | 0.0005 | 0.0010 | 0.0006 | 0.00019 | 0.0008 | 0.003 | 8 | 0.136 | 0.000009 | 0.0005 | 0.0001 | 0.22 | 0.00001 | 0.05 |
| | SW17 | 6.78 | 3.57 | 91.6 | 40.6 | 0.01 | 0.0006 | 0.0012 | 0.0005 | 0.00022 | 0.0011 | 0.003 | 9 | 0.206 | 0.000013 | 0.0007 | 0.0002 | 0.38 | 0.00001 | 0.05 |

Table C12: December 2022 Surface Water Quality for Selected Parameters

| Receiver | Parameter | Field pH | Field Temperature | Conductivity | Hardness | Ammonia, Unionized | Arsenic, Total | Copper, Total | Cyanide, Free | Lead, Total | Nickel, Total | Zinc, Total | Total Suspended Solids | Aluminum, Total | Cadmium, Total | Chromium, Total | Cobalt, Total | Iron, Total | Mercury, Total | Phosphorus, Total |
|-----------------------|-----------|----------|-------------------|--------------|----------|--------------------|----------------|---------------|---------------|--------------|---------------|-------------|------------------------|-----------------|----------------|-----------------|---------------|-------------|----------------|-------------------|
| | Unit | pH units | °C | µS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| ECA Benchmarks | | | | | | 0.02 | 0.01 | 0.008 | 0.005 | 0.008 | 0.025 | 0.09 | | 0.075 | 0.0001 | 0.001 | 0.0009 | 0.30 | 0.0002 | |
| Pinewood River | SW20 | | | | | | | | | | | | | | | | | | | |
| | SW10 | | | | | | | | | | | | | | | | | | | |
| | SW21A | 8.97 | -0.14 | 423 | 203 | 0.002 | 0.0010 | 0.0004 | 0.0020 | 0.0001 | 0.0017 | 0.001 | 7 | 0.145 | 0.000012 | 0.0005 | 0.0010 | 1.13 | 0.00001 | 0.09 |
| | SW22A | 9.31 | 0.81 | 410 | 201 | 0.004 | 0.0010 | 0.0006 | 0.0003 | 0.00015 | 0.0016 | 0.007 | 3.5 | 0.141 | 0.000013 | 0.0005 | 0.0007 | 0.90 | 0.00001 | 0.07 |
| | SW03 | | | | | | | | | | | | | | | | | | | |
| | SW23 | | | | | | | | | | | | | | | | | | | |
| SW24 | | | | | | | | | | | | | | | | | | | | |
| SW15 | 7.5 | 1.74 | 273 | 142 | 0.01 | 0.0010 | 0.0016 | 0.0020 | 0.00383 | 0.0019 | 0.007 | 3 | 0.412 | 0.000022 | 0.0010 | 0.0004 | 0.90 | 0.00001 | 0.03 | |
| Clark Creek | SW28A | 9.73 | 0.82 | 259 | 145 | 0.039 | 0.0010 | 0.0009 | 0.0002 | 0.00011 | 0.0012 | 0.002 | 4.5 | 0.099 | 0.000008 | 0.0005 | 0.0002 | 0.46 | 0.00001 | 0.01 |
| West Creek | SW02 | 8.69 | 0.27 | 110 | 65.4 | 0.002 | 0.0006 | 0.0003 | 0.0001 | 0.00017 | 0.0005 | 0.006 | 3 | 0.075 | 0.000006 | 0.0004 | 0.0002 | 0.48 | 0.00001 | 0.01 |
| | SW25 | 9.21 | 0.06 | 275 | 141 | 0.006 | 0.0009 | 0.0012 | 0.0020 | 0.00013 | 0.0012 | 0.009 | 2.5 | 0.149 | 0.000005 | 0.0005 | 0.0002 | 0.39 | 0.00001 | 0.01 |
| | SW26 | 8.39 | 1.13 | 304 | 163 | 0.001 | 0.0010 | 0.0015 | 0.0020 | 0.00019 | 0.0014 | 0.016 | 3.5 | 0.208 | 0.000011 | 0.0006 | 0.0002 | 0.49 | 0.00001 | 0.01 |
| Loslo Creek | SW27 | 9.01 | 1.67 | 339 | 178 | 0.004 | 0.0010 | 0.0016 | 0.0020 | 0.00032 | 0.0017 | 0.015 | 8.5 | 0.433 | 0.000015 | 0.0011 | 0.0004 | 0.76 | 0.00001 | 0.02 |
| Tait Creek | SW29 | | | | | | | | | | | | | | | | | | | |
| Rainy River | SW16 | | | | | | | | | | | | | | | | | | | |
| | SW17 | 7.08 | 0.19 | 90.4 | 38.4 | 0.01 | 0.0005 | 0.0010 | 0.0020 | 0.00011 | 0.0007 | 0.001 | 1 | 0.097 | 0.000008 | 0.0005 | 0.0001 | 0.20 | 0.00001 | 0.05 |

Table C13: April 2022 Discharge and Dilution Ratios

| Date | Average 24-hr Flow in Pinewood River at H1 Hydrometric Station less discharge (m ³ /day) | Calculated Average 24-hr Flow in Pinewood River at EDL2 (m ³ /day) | EDL1 Daily Discharge (m ³ /day) | EDL2 Daily Discharge (m ³ /day) | EDL1/EDL2 Dilution Ratio* (1 : X) | Sediment Pond 2 Daily Discharge (m ³ /day) | Dilution Ratio* (1 : X) |
|-----------|---|---|--|--|-----------------------------------|---|-------------------------|
| 1-Apr-22 | 99,462 | N/A | 0 | 0 | N/A | 0 | 0.0 |
| 2-Apr-22 | 167,702 | N/A | 0 | 0 | N/A | 0 | 0.0 |
| 3-Apr-22 | 197,511 | N/A | 0 | 0 | N/A | 0 | 0.0 |
| 4-Apr-22 | 207,273 | N/A | 0 | 0 | N/A | 0 | 0.0 |
| 5-Apr-22 | 293,067 | N/A | 0 | 0 | N/A | 0 | 0.0 |
| 6-Apr-22 | 451,230 | N/A | 0 | 0 | N/A | 0 | 0.0 |
| 7-Apr-22 | 489,229 | N/A | 0 | 0 | N/A | 0 | 0.0 |
| 8-Apr-22 | 545,503 | N/A | 0 | 0 | N/A | 0 | 0.0 |
| 9-Apr-22 | 475,080 | N/A | 0 | 0 | N/A | 0 | 0.0 |
| 10-Apr-22 | 641,110 | N/A | 0 | 0 | N/A | 0 | 0.0 |
| 11-Apr-22 | 745,057 | N/A | 0 | 0 | N/A | 0 | 0.0 |
| 12-Apr-22 | 800,281 | 786,445 | 2,496 | 0 | 0.00 | 11,340 | 1.5 |
| 13-Apr-22 | 1,007,467 | 978,039 | 20,308 | 0 | 0.03 | 9,120 | 1.1 |
| 14-Apr-22 | 994,395 | 959,044 | 22,391 | 0 | 0.02 | 12,960 | 1.3 |
| 15-Apr-22 | 822,765 | 787,368 | 22,437 | 0 | 0.02 | 12,960 | 1.3 |
| 16-Apr-22 | 678,516 | 642,847 | 22,709 | 0 | 0.03 | 12,960 | 1.6 |
| 17-Apr-22 | 292,662 | 245,079 | 23,541 | 11,081 | 0.05 | 12,960 | 1.9 |
| 18-Apr-22 | 483,094 | 435,063 | 23,547 | 11,524 | 0.12 | 12,960 | 4.4 |
| 19-Apr-22 | 239,647 | 191,462 | 23,517 | 11,708 | 0.07 | 12,960 | 2.7 |
| 20-Apr-22 | 382,487 | 334,277 | 23,571 | 11,679 | 0.15 | 12,960 | 5.4 |
| 21-Apr-22 | 377,003 | 335,133 | 23,709 | 11,681 | 0.09 | 6,480 | 1.7 |
| 22-Apr-22 | 435,013 | 386,680 | 23,708 | 11,665 | 0.09 | 12,960 | 3.4 |
| 23-Apr-22 | 854,816 | 806,499 | 23,704 | 11,653 | 0.08 | 12,960 | 3.0 |
| 24-Apr-22 | 2,641,109 | 2,592,777 | 23,711 | 11,661 | 0.04 | 12,960 | 1.5 |
| 25-Apr-22 | 2,438,708 | 2,390,348 | 23,747 | 11,653 | 0.01 | 12,960 | 0.5 |
| 26-Apr-22 | 1,812,846 | 1,764,628 | 23,631 | 11,627 | 0.01 | 12,960 | 0.5 |
| 27-Apr-22 | 1,299,332 | 1,245,387 | 19,622 | 21,363 | 0.02 | 12,960 | 0.7 |
| 28-Apr-22 | 1,044,899 | 985,091 | 24,360 | 22,487 | 0.04 | 12,960 | 1.0 |
| 29-Apr-22 | 911,981 | 851,833 | 24,374 | 22,815 | 0.05 | 12,960 | 1.2 |
| 30-Apr-22 | 1,364,592 | 1,307,850 | 24,226 | 19,556 | 0.05 | 12,960 | 1.4 |

*Previous 24-hr flow to determine daily discharge volume

Table C14: May 2022 Discharge and Dilution Ratios

| Date | Average 24-hr Flow in Pinewood River at H1 Hydrometric Station less discharge (m ³ /day) | Calculated Average 24-hr Flow in Pinewood River at EDL2 (m ³ /day) | EDL1 Daily Discharge (m ³ /day) | EDL2 Daily Discharge (m ³ /day) | EDL1/EDL2 Dilution Ratio* (1 : X) | Sediment Pond 2 Daily Discharge (m ³ /day) | Dilution Ratio* (1 : X) |
|-----------|---|---|--|--|-----------------------------------|---|-------------------------|
| 1-May-22 | 1,561,665 | 1,509,951 | 22,337 | 16,417 | 0.03 | 12,960 | 0.9 |
| 2-May-22 | 1,911,731 | 1,858,170 | 24,363 | 16,238 | 0.03 | 12,960 | 0.8 |
| 3-May-22 | 1,605,028 | 1,551,342 | 24,505 | 16,221 | 0.02 | 12,960 | 0.7 |
| 4-May-22 | 1,221,081 | 1,167,370 | 24,556 | 16,195 | 0.03 | 12,960 | 0.8 |
| 5-May-22 | 1,005,805 | 952,097 | 24,573 | 16,175 | 0.03 | 12,960 | 1.1 |
| 6-May-22 | 848,370 | 795,053 | 24,199 | 16,158 | 0.04 | 12,960 | 1.3 |
| 7-May-22 | 729,677 | 676,775 | 24,064 | 12,338 | 0.04 | 16,500 | 1.9 |
| 8-May-22 | 662,794 | 603,547 | 24,348 | 16,899 | 0.06 | 18,000 | 2.5 |
| 9-May-22 | 676,762 | 619,590 | 23,172 | 16,000 | 0.06 | 18,000 | 2.7 |
| 10-May-22 | 944,198 | 884,328 | 24,542 | 17,328 | 0.06 | 18,000 | 2.7 |
| 11-May-22 | 1,031,012 | 971,691 | 23,991 | 17,330 | 0.04 | 18,000 | 1.9 |
| 12-May-22 | 848,643 | 787,646 | 25,732 | 17,265 | 0.04 | 18,000 | 1.7 |
| 13-May-22 | 1,381,245 | 1,320,248 | 25,732 | 17,265 | 0.05 | 18,000 | 2.1 |
| 14-May-22 | 2,016,950 | 1,964,178 | 24,840 | 17,251 | 0.03 | 10,680 | 0.8 |
| 15-May-22 | 1,381,600 | 1,322,503 | 23,813 | 17,284 | 0.02 | 18,000 | 0.9 |
| 16-May-22 | 935,610 | 876,863 | 23,432 | 17,315 | 0.03 | 18,000 | 1.3 |
| 17-May-22 | 680,783 | 622,297 | 23,151 | 17,335 | 0.04 | 18,000 | 1.9 |
| 18-May-22 | 544,219 | 485,764 | 23,100 | 17,355 | 0.06 | 18,000 | 2.6 |
| 19-May-22 | 497,731 | 439,300 | 23,087 | 17,344 | 0.07 | 18,000 | 3.3 |
| 20-May-22 | 480,241 | 421,919 | 22,994 | 17,328 | 0.08 | 18,000 | 3.6 |
| 21-May-22 | 446,308 | 389,159 | 22,962 | 16,187 | 0.08 | 18,000 | 3.7 |
| 22-May-22 | 398,661 | 344,429 | 22,678 | 13,554 | 0.08 | 18,000 | 4.0 |
| 23-May-22 | 332,764 | 276,785 | 22,581 | 15,398 | 0.10 | 18,000 | 4.5 |
| 24-May-22 | 313,618 | 256,718 | 22,522 | 16,378 | 0.12 | 18,000 | 5.4 |
| 25-May-22 | 275,474 | 216,729 | 22,447 | 18,298 | 0.13 | 18,000 | 5.7 |
| 26-May-22 | 243,288 | 184,551 | 22,436 | 18,300 | 0.15 | 18,000 | 6.5 |
| 27-May-22 | 202,161 | 150,661 | 22,396 | 18,303 | 0.17 | 10,800 | 4.4 |
| 28-May-22 | 169,235 | 117,801 | 22,326 | 18,308 | 0.20 | 10,800 | 5.3 |
| 29-May-22 | 309,727 | 260,265 | 22,145 | 18,317 | 0.24 | 9,000 | 5.3 |
| 30-May-22 | 874,986 | 826,280 | 22,007 | 14,699 | 0.12 | 12,000 | 3.9 |
| 31-May-22 | 1,448,090 | 1,396,099 | 21,795 | 16,995 | 0.04 | 13,200 | 1.5 |

Previous 24-hr flow to determine daily discharge volume

Table C15: June 2022 Discharge and Dilution Ratios

| Date | Average 24-hr Flow in Pinewood River at H1 Hydrometric Station less discharge (m ³ /day) | Calculated Average 24-hr Flow in Pinewood River at EDL2 (m ³ /day) | EDL1 Daily Discharge (m ³ /day) | EDL2 Daily Discharge (m ³ /day) | EDL1/EDL2 Dilution Ratio* (1 : X) | Sediment Pond 2 Daily Discharge (m ³ /day) | Dilution Ratio* (1 : X) |
|-----------|---|---|--|--|-----------------------------------|---|-------------------------|
| 1-Jun-22 | 1,641,623 | 1,593,957 | 21,723 | 16,763 | 0.03 | 9,000 | 0.6 |
| 2-Jun-22 | 1,211,478 | 1,163,054 | 22,477 | 16,751 | 0.02 | 9,000 | 0.5 |
| 3-Jun-22 | 809,537 | 761,093 | 22,493 | 16,683 | 0.03 | 9,000 | 0.7 |
| 4-Jun-22 | 561,479 | 514,107 | 22,288 | 16,576 | 0.05 | 9,000 | 1.1 |
| 5-Jun-22 | 397,611 | 349,519 | 22,138 | 16,505 | 0.07 | 9,000 | 1.6 |
| 6-Jun-22 | 302,903 | 260,038 | 22,082 | 16,511 | 0.10 | 7,125 | 1.8 |
| 7-Jun-22 | 242,169 | 195,638 | 22,082 | 16,532 | 0.13 | 9,000 | 3.0 |
| 8-Jun-22 | 197,486 | 156,445 | 22,018 | 5,360 | 0.11 | 13,200 | 5.5 |
| 9-Jun-22 | 146,340 | 112,260 | 22,080 | - | 0.11 | 12,000 | 6.1 |
| 10-Jun-22 | 105,637 | 76,124 | 18,714 | - | 0.13 | 10,800 | 7.4 |
| 11-Jun-22 | 99,746 | 70,674 | 21,632 | - | 0.20 | 7,440 | 7.0 |
| 12-Jun-22 | 86,370 | 58,339 | 21,431 | - | 0.21 | 6,600 | 6.6 |
| 13-Jun-22 | 113,338 | 86,359 | 21,379 | - | 0.25 | 5,600 | 6.5 |
| 14-Jun-22 | 117,053 | 87,355 | 21,298 | - | 0.19 | 8,400 | 7.4 |
| 15-Jun-22 | 128,781 | 99,184 | 21,197 | - | 0.18 | 8,400 | 7.2 |
| 16-Jun-22 | 115,744 | 86,544 | 19,600 | - | 0.15 | 9,600 | 7.5 |
| 17-Jun-22 | 97,999 | 68,328 | 21,031 | - | 0.18 | 8,640 | 7.5 |
| 18-Jun-22 | 76,709 | 49,065 | 20,924 | - | 0.21 | 6,720 | 6.9 |
| 19-Jun-22 | 60,304 | 34,692 | 20,812 | - | 0.27 | 4,800 | 6.3 |
| 20-Jun-22 | 50,298 | 29,852 | 16,990 | - | 0.28 | 3,456 | 5.7 |
| 21-Jun-22 | 128,672 | 104,642 | 21,150 | - | 0.42 | 2,880 | 5.7 |
| 22-Jun-22 | 140,690 | 113,007 | 17,655 | - | 0.14 | 10,028 | 7.8 |
| 23-Jun-22 | 91,071 | 59,222 | 21,048 | - | 0.15 | 10,800 | 7.7 |
| 24-Jun-22 | 83,221 | 58,234 | 20,937 | - | 0.23 | 4,050 | 4.4 |
| 25-Jun-22 | 110,814 | 84,478 | 20,936 | - | 0.25 | 5,400 | 6.5 |
| 26-Jun-22 | 141,652 | 112,279 | 20,973 | - | 0.19 | 8,400 | 7.6 |
| 27-Jun-22 | 154,362 | 126,308 | 17,014 | - | 0.12 | 11,040 | 7.8 |
| 28-Jun-22 | 116,427 | 83,159 | 21,269 | - | 0.14 | 12,000 | 7.8 |
| 29-Jun-22 | 93,468 | 65,658 | 19,649 | - | 0.17 | 8,160 | 7.0 |
| 30-Jun-22 | 81,376 | 55,591 | 19,305 | - | 0.21 | 6,480 | 6.9 |

Previous 24-hr flow to determine daily discharge volume

Table C16: July 2022 Discharge and Dilution Ratios

| Date | Average 24-hr Flow in Pinewood River at H1 Hydrometric Station less discharge (m ³ /day) | Calculated Average 24-hr Flow in Pinewood River at EDL2 (m ³ /day) | EDL1 Daily Discharge (m ³ /day) | EDL2 Daily Discharge (m ³ /day) | EDL1/EDL2 Dilution Ratio* (1 : X) | Sediment Pond 2 Daily Discharge (m ³ /day) | Dilution Ratio* (1 : X) |
|-----------|---|---|--|--|-----------------------------------|---|-------------------------|
| 1-Jul-22 | 40,553 | 16,923 | 19,272 | - | 0.24 | 5,120 | 6.3 |
| 2-Jul-22 | 20,825 | 12,305 | 19,246 | - | 0.47 | 3,960 | 9.8 |
| 3-Jul-22 | 13,332 | 10,196 | 19,230 | - | 0.92 | 2,040 | 9.8 |
| 4-Jul-22 | 6,014 | 9,159 | 18,770 | - | 1.41 | 1,320 | 9.9 |
| 5-Jul-22 | 28,989 | 10,663 | - | - | 0.00 | - | 0.0 |
| 6-Jul-22 | 1,043 | 12,428 | 18,422 | - | 0.64 | 2,250 | 7.8 |
| 7-Jul-22 | 16,420 | 9,314 | - | - | 0.00 | - | 0.0 |
| 8-Jul-22 | 10,282 | 8,168 | - | - | 0.00 | - | 0.0 |
| 9-Jul-22 | 7,032 | 8,370 | - | - | 0.00 | - | 0.0 |
| 10-Jul-22 | 7,015 | 16,073 | - | - | 0.00 | - | 0.0 |
| 11-Jul-22 | 10,609 | 76,354 | - | - | 0.00 | - | 0.0 |
| 12-Jul-22 | 60,469 | 281,742 | - | - | 0.00 | - | 0.0 |
| 13-Jul-22 | 214,599 | 187,610 | - | - | 0.00 | - | 0.0 |
| 14-Jul-22 | 326,516 | 106,788 | - | - | 0.00 | - | 0.0 |
| 15-Jul-22 | 236,497 | 60,933 | - | - | 0.00 | - | 0.0 |
| 16-Jul-22 | 116,668 | 42,357 | - | - | 0.00 | - | 0.0 |
| 17-Jul-22 | 72,085 | 36,426 | - | - | 0.00 | - | 0.0 |
| 18-Jul-22 | 56,307 | 128,614 | - | - | 0.00 | - | 0.0 |
| 19-Jul-22 | 90,710 | 175,031 | - | - | 0.00 | - | 0.0 |
| 20-Jul-22 | 284,990 | 428,444 | - | - | 0.00 | - | 0.0 |
| 21-Jul-22 | 464,615 | 171,469 | - | - | 0.00 | - | 0.0 |
| 22-Jul-22 | 479,556 | 87,747 | - | - | 0.00 | - | 0.0 |
| 23-Jul-22 | 228,519 | 70,701 | - | - | 0.00 | - | 0.0 |
| 24-Jul-22 | 183,176 | 82,362 | - | - | 0.00 | - | 0.0 |
| 25-Jul-22 | 147,563 | 60,445 | - | - | 0.00 | - | 0.0 |
| 26-Jul-22 | 120,568 | 51,346 | - | - | 0.00 | - | 0.0 |
| 27-Jul-22 | 98,093 | 45,625 | - | 3,502 | 0.03 | 8,080 | 6.7 |
| 28-Jul-22 | 70,517 | 47,137 | - | - | 0.00 | 6,464 | 6.6 |
| 29-Jul-22 | 66,142 | 30,802 | 18,522 | - | 0.26 | 6,060 | 8.6 |
| 30-Jul-22 | 36,778 | 25,098 | 21,463 | - | 0.32 | 3,232 | 4.9 |
| 31-Jul-22 | 35,093 | 21,419 | 21,699 | - | 0.59 | 3,232 | 8.8 |

Previous 24-hr flow to determine daily discharge volume

Table C17: August 2022 Discharge and Dilution Ratios

| Date | Average 24-hr Flow in Pinewood River at H1 Hydrometric Station less discharge (m ³ /day) | Calculated Average 24-hr Flow in Pinewood River at EDL2 (m ³ /day) | EDL1 Daily Discharge (m ³ /day) | EDL2 Daily Discharge (m ³ /day) | EDL1/EDL2 Dilution Ratio* (1 : X) | Sediment Pond 2 Daily Discharge (m ³ /day) | Dilution Ratio* (1 : X) |
|-----------|---|---|--|--|-----------------------------------|---|-------------------------|
| 1-Aug-22 | 42,473 | 30,743 | 21,699 | - | 0.62 | 3,232 | 9.2 |
| 2-Aug-22 | 38,422 | 22,533 | 21,582 | - | 0.51 | 4,040 | 9.5 |
| 3-Aug-22 | 30,573 | 23,662 | 21,500 | - | 0.56 | 3,600 | 9.4 |
| 4-Aug-22 | 23,593 | 16,513 | 21,443 | - | 0.70 | 2,925 | 9.6 |
| 5-Aug-22 | 13,485 | 12,572 | 21,403 | - | 0.91 | 2,250 | 9.5 |
| 6-Aug-22 | 12,386 | 14,795 | 17,838 | - | 1.32 | 1,348 | 10.0 |
| 7-Aug-22 | 7,386 | 9,990 | 12,513 | - | 1.01 | 1,238 | 10.0 |
| 8-Aug-22 | 11,434 | 7,651 | | - | 0.00 | - | 0.0 |
| 9-Aug-22 | 6,437 | 8,109 | | - | 0.00 | - | 0.0 |
| 10-Aug-22 | 4,422 | 7,733 | | - | 0.00 | - | 0.0 |
| 11-Aug-22 | 7,070 | 13,919 | | - | 0.00 | - | 0.0 |
| 12-Aug-22 | 9,614 | 5,912 | | - | 0.00 | - | 0.0 |
| 13-Aug-22 | 11,407 | 6,983 | | - | 0.00 | - | 0.0 |
| 14-Aug-22 | 12,410 | 6,792 | | - | 0.00 | - | 0.0 |
| 15-Aug-22 | 13,432 | 6,344 | | - | 0.00 | - | 0.0 |
| 16-Aug-22 | 16,350 | 6,899 | | - | 0.00 | - | 0.0 |
| 17-Aug-22 | 20,371 | 7,903 | | - | 0.00 | - | 0.0 |
| 18-Aug-22 | 20,911 | 6,423 | | - | 0.00 | - | 0.0 |
| 19-Aug-22 | 24,874 | 7,631 | | - | 0.00 | - | 0.0 |
| 20-Aug-22 | 24,597 | 7,671 | | - | 0.00 | - | 0.0 |
| 21-Aug-22 | 15,873 | 4,616 | | - | 0.00 | - | 0.0 |
| 22-Aug-22 | 19,070 | 4,173 | | - | 0.00 | - | 0.0 |
| 23-Aug-22 | 20,361 | 5,364 | | - | 0.00 | - | 0.0 |
| 24-Aug-22 | 23,277 | 8,209 | | - | 0.00 | - | 0.0 |
| 25-Aug-22 | 24,236 | 8,176 | | - | 0.00 | - | 0.0 |
| 26-Aug-22 | 21,628 | 6,951 | | - | 0.00 | - | 0.0 |
| 27-Aug-22 | 23,711 | 7,701 | | - | 0.00 | - | 0.0 |
| 28-Aug-22 | 26,037 | 7,036 | | - | 0.00 | - | 0.0 |
| 29-Aug-22 | 27,298 | 8,322 | | - | 0.00 | - | 0.0 |
| 30-Aug-22 | 30,169 | 9,328 | | - | 0.00 | - | 0.0 |
| 31-Aug-22 | 29,103 | 8,912 | | - | 0.00 | - | 0.0 |

Previous 24-hr flow to determine daily discharge volume

Table C18: September 2022 Discharge and Dilution Ratios

| Date | Average 24-hr Flow in Pinewood River at H1 Hydrometric Station less discharge (m ³ /day) | Calculated Average 24-hr Flow in Pinewood River at EDL2 (m ³ /day) | EDL1 Daily Discharge (m ³ /day) | EDL2 Daily Discharge (m ³ /day) | EDL1/EDL2 Dilution Ratio* (1 : X) | Sediment Pond 2 Daily Discharge (m ³ /day) | Dilution Ratio* (1 : X) |
|-----------|---|---|--|--|-----------------------------------|---|-------------------------|
| 1-Sep-22 | 27,030 | 9,523 | | - | 0.00 | - | 0.0 |
| 2-Sep-22 | 23,801 | 7,779 | | - | 0.00 | - | 0.0 |
| 3-Sep-22 | 16,565 | 7,122 | | - | 0.00 | - | 0.0 |
| 4-Sep-22 | 15,926 | 6,089 | | - | 0.00 | - | 0.0 |
| 5-Sep-22 | 14,989 | 5,528 | | - | 0.00 | - | 0.0 |
| 6-Sep-22 | 14,054 | 6,249 | | - | 0.00 | - | 0.0 |
| 7-Sep-22 | 15,326 | 6,389 | | - | 0.00 | - | 0.0 |
| 8-Sep-22 | 13,157 | 4,768 | | - | 0.00 | - | 0.0 |
| 9-Sep-22 | 12,675 | 5,403 | | - | 0.00 | - | 0.0 |
| 10-Sep-22 | 15,623 | 3,900 | | - | 0.00 | - | 0.0 |
| 11-Sep-22 | 17,617 | 3,221 | | - | 0.00 | - | 0.0 |
| 12-Sep-22 | 18,945 | 2,923 | | - | 0.00 | - | 0.0 |
| 13-Sep-22 | 20,050 | 4,531 | | - | 0.00 | - | 0.0 |
| 14-Sep-22 | 23,066 | 3,358 | | - | 0.00 | - | 0.0 |
| 15-Sep-22 | 27,018 | 6,498 | | - | 0.00 | - | 0.0 |
| 16-Sep-22 | 35,849 | 10,355 | | - | 0.00 | - | 0.0 |
| 17-Sep-22 | 51,251 | 10,117 | | - | 0.00 | - | 0.0 |
| 18-Sep-22 | 52,794 | 19,434 | | - | 0.00 | - | 0.0 |
| 19-Sep-22 | 43,506 | 16,524 | | - | 0.00 | 4,830 | 9.1 |
| 20-Sep-22 | 31,496 | 12,180 | 19,421 | - | 0.45 | 4,350 | 10.0 |
| 21-Sep-22 | 35,544 | 10,996 | 22,997 | - | 0.73 | 3,150 | 10.0 |
| 22-Sep-22 | 33,888 | 10,434 | 22,822 | - | 0.64 | 3,550 | 10.0 |
| 23-Sep-22 | 29,740 | 10,032 | 22,582 | - | 0.67 | 3,390 | 10.0 |
| 24-Sep-22 | 29,090 | 8,319 | 22,485 | - | 0.76 | 2,941 | 9.9 |
| 25-Sep-22 | 28,855 | 9,839 | 22,329 | - | 0.77 | 2,880 | 9.9 |
| 26-Sep-22 | 28,615 | 8,698 | 22,223 | - | 0.77 | 2,800 | 9.7 |
| 27-Sep-22 | 27,987 | 8,888 | 22,195 | - | 0.78 | 2,800 | 9.8 |
| 28-Sep-22 | 26,251 | 9,867 | 22,249 | - | 0.79 | 2,765 | 9.9 |
| 29-Sep-22 | 43,428 | 5,114 | | - | 0.00 | | 0.0 |
| 30-Sep-22 | 42,884 | 4,725 | | - | 0.00 | | 0.0 |

Previous 24-hr flow to determine daily discharge volume

Table C17: October 2022 Discharge and Dilution Ratios

| Date | Average 24-hr Flow in Pinewood River at H1 Hydrometric Station less discharge (m ³ /day) | Calculated Average 24-hr Flow in Pinewood River at EDL2 (m ³ /day) | EDL1 Daily Discharge (m ³ /day) | EDL2 Daily Discharge (m ³ /day) | EDL1/EDL2 Dilution Ratio* (1 : X) | Sediment Pond 2 Daily Discharge (m ³ /day) | Dilution Ratio* (1 : X) |
|-----------|---|---|--|--|-----------------------------------|---|-------------------------|
| 1-Oct-22 | 37,731 | 4,047 | - | - | 0.00 | - | 0.0 |
| 2-Oct-22 | 44,774 | 3,368 | - | - | 0.00 | - | 0.0 |
| 3-Oct-22 | 46,077 | 4,404 | - | - | 0.00 | - | 0.0 |
| 4-Oct-22 | 47,699 | 6,516 | - | - | 0.00 | - | 0.0 |
| 5-Oct-22 | 48,323 | 3,974 | - | - | 0.00 | - | 0.0 |
| 6-Oct-22 | 48,881 | 3,865 | - | - | 0.00 | - | 0.0 |
| 7-Oct-22 | 49,874 | 10,451 | - | - | 0.00 | - | 0.0 |
| 8-Oct-22 | 48,306 | 34,399 | - | - | 0.00 | - | 0.0 |
| 9-Oct-22 | 67,069 | 10,415 | - | - | 0.00 | - | 0.0 |
| 10-Oct-22 | 59,899 | 7,275 | - | - | 0.00 | - | 0.0 |
| 11-Oct-22 | 54,346 | 5,549 | - | - | 0.00 | - | 0.0 |
| 12-Oct-22 | 53,816 | 4,763 | - | - | 0.00 | - | 0.0 |
| 13-Oct-22 | 55,099 | 4,768 | - | - | 0.00 | - | 0.0 |
| 14-Oct-22 | 61,817 | 16,674 | - | - | 0.00 | - | 0.0 |
| 15-Oct-22 | 73,353 | 14,484 | - | - | 0.00 | - | 0.0 |
| 16-Oct-22 | 90,487 | 17,663 | - | - | 0.00 | - | 0.0 |
| 17-Oct-22 | 39,270 | 13,624 | - | - | 0.00 | - | 0.0 |
| 18-Oct-22 | 32,269 | 15,025 | - | - | 0.00 | 3,870 | 9.9 |
| 19-Oct-22 | 38,835 | 14,030 | - | - | 0.00 | 3,227 | 10.0 |
| 20-Oct-22 | 13,069 | 13,590 | 21,448 | 10,883 | 0.83 | 3,876 | 10.0 |
| 21-Oct-22 | 47,353 | 12,162 | 5,911 | 5,035 | 0.84 | 1,306 | 10.0 |
| 22-Oct-22 | 13,982 | 14,783 | 22,585 | 11,738 | 0.72 | 4,730 | 10.0 |
| 23-Oct-22 | 43,064 | 10,721 | 13,942 | - | 1.00 | 1,398 | 10.0 |
| 24-Oct-22 | 32,598 | 17,037 | 21,354 | - | 0.50 | 2,148 | 5.0 |
| 25-Oct-22 | 41,125 | 16,863 | 16,086 | - | 0.49 | 3,227 | 9.9 |
| 26-Oct-22 | 16,186 | 17,411 | 21,210 | 15,060 | 0.88 | 4,110 | 10.0 |
| 27-Oct-22 | 42,058 | 14,501 | 6,891 | 7,150 | 0.87 | 1,600 | 9.9 |
| 28-Oct-22 | 16,119 | 15,370 | 20,224 | 12,775 | 0.78 | 4,063 | 9.7 |
| 29-Oct-22 | 36,028 | 14,501 | 740 | 15,233 | 0.99 | 1,594 | 9.9 |
| 30-Oct-22 | 14,443 | 16,436 | 19,789 | 14,395 | 0.95 | 3,600 | 10.0 |
| 31-Oct-22 | 40,397 | 12,066 | 5,567 | 5,526 | 0.77 | 1,600 | 11.1 |

Previous 24-hr flow to determine daily discharge volume

Table C18: November 2022 Discharge and Dilution Ratios

| Date | Average 24-hr Flow in Pinewood River at H1 Hydrometric Station less discharge (m ³ /day) | Calculated Average 24-hr Flow in Pinewood River at EDL2 (m ³ /day) | EDL1 Daily Discharge (m ³ /day) | EDL2 Daily Discharge (m ³ /day) | EDL1/EDL2 Dilution Ratio* (1 : X) | Sediment Pond 2 Daily Discharge (m ³ /day) | Dilution Ratio* (1 : X) |
|-----------|---|---|--|--|-----------------------------------|---|-------------------------|
| 1-Nov-22 | 14,059 | 12,742 | 7,212 | 6,973 | 0.35 | 4,025 | 10.0 |
| 2-Nov-22 | 16,536 | 8,753 | 5,817 | 5,971 | 0.84 | 1,400 | 10.0 |
| 3-Nov-22 | 16,730 | 8,993 | 6,727 | 6,839 | 0.82 | 2,320 | 14.0 |
| 4-Nov-22 | 27,445 | 18,597 | - | - | 0.00 | 11,040 | 66.0 |
| 5-Nov-22 | 16,884 | 18,201 | - | - | 0.00 | 11,040 | 40.2 |
| 6-Nov-22 | 12,827 | 19,612 | - | - | 0.00 | 11,040 | 65.4 |
| 7-Nov-22 | 10,948 | 17,512 | 12,474 | 6,817 | 1.50 | 11,040 | 86.1 |
| 8-Nov-22 | 23,843 | 16,764 | 7,565 | 3,000 | 0.96 | 11,040 | 100.8 |
| 9-Nov-22 | 4,509 | 20,374 | 18,564 | 9,429 | 1.17 | 11,040 | 46.3 |
| 10-Nov-22 | 37,569 | 21,902 | 10,443 | 2,952 | 2.97 | 11,040 | 244.8 |
| 11-Nov-22 | 52,582 | 19,043 | 22,875 | | 0.61 | 11,040 | 29.4 |
| 12-Nov-22 | 33,483 | 19,907 | 21,700 | | 0.41 | 11,040 | 21.0 |
| 13-Nov-22 | 27,728 | 25,151 | 21,506 | | 0.64 | 11,040 | 33.0 |
| 14-Nov-22 | 12,672 | 25,258 | 21,198 | | 0.76 | 11,040 | 39.8 |
| 15-Nov-22 | 31,797 | 24,360 | 21,024 | | 1.66 | 9,600 | 75.8 |
| 16-Nov-22 | 31,359 | 23,761 | 20,871 | | 0.66 | 9,600 | 30.2 |
| 17-Nov-22 | 44,003 | 14,788 | 2,212 | | 0.07 | | 0.0 |
| 18-Nov-22 | 40,916 | 12,490 | | | 0.00 | | 0.0 |
| 19-Nov-22 | 35,627 | 17,248 | | | 0.00 | | 0.0 |
| 20-Nov-22 | 30,025 | 15,098 | | | 0.00 | | 0.0 |
| 21-Nov-22 | 21,834 | 12,666 | | | 0.00 | | 0.0 |
| 22-Nov-22 | 25,051 | 13,481 | | | 0.00 | | 0.0 |
| 23-Nov-22 | 22,352 | 13,369 | | | 0.00 | | 0.0 |
| 24-Nov-22 | 20,938 | 13,783 | | | 0.00 | | 0.0 |
| 25-Nov-22 | 18,834 | 17,281 | | | 0.00 | | 0.0 |
| 26-Nov-22 | 17,617 | 14,255 | | | 0.00 | | 0.0 |
| 27-Nov-22 | 18,368 | 14,410 | | | 0.00 | | 0.0 |
| 28-Nov-22 | 17,837 | 14,741 | | | 0.00 | | 0.0 |
| 29-Nov-22 | 17,168 | 18,516 | | | 0.00 | | 0.0 |
| 30-Nov-22 | 15,079 | 15,482 | | | 0.00 | | 0.0 |

Previous 24-hr flow to determine daily discharge volume

Table C19: April 2022 EDL 1 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 4/27/2022 | 4/25/2022 | 4/22/2022 | 4/20/2022 | 4/18/2022 | 4/14/2022 | 4/13/2022 | ECA Monthly Limit | April 2022 Average |
|--------------------------------------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------|--------------------|
| | | | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | | EDL1 |
| Total Suspended Solids | mg/L | 30 | 3 | 3.5 | 4.5 | 2.5 | 2.5 | 1.5 | 10.5 | 15 | 4.00 |
| Ammonia, Unionized | mg/L | 0.080 | 0.005 | | | 0.0020 | | | 0.004 | 0.04 | 0.0037 |
| Phosphorus, Total | mg/L | | 0.009 | | | 0.0085 | | | 0.021 | 0.1 | 0.013 |
| Cyanide, Total | mg/L | 0.1 | 0.0006 | 0.0006 | 0.0030 | 0.0030 | 0.0004 | 0.0014 | 0.0002 | 0.05 | 0.001 |
| Cyanide, Free | mg/L | 0.02 | 0.0007 | 0.0001 | 0.0001 | 0.0026 | 0.0001 | 0.0001 | 0.0001 | 0.01 | 0.001 |
| Arsenic, Total | mg/L | 0.034 | 0.002 | | | 0.00170 | | | 0.0020 | 0.017 | 0.002 |
| Copper, Total | mg/L | 0.028 | 0.0067 | | | 0.01630 | | | 0.0101 | 0.014 | 0.011 |
| Lead, Total | mg/L | 0.03 | 0.00004 | | | 0.00014 | | | 0.0003 | 0.015 | 0.000 |
| Nickel, Total | mg/L | 0.094 | 0.0019 | | | 0.00230 | | | 0.0018 | 0.047 | 0.002 |
| Zinc, Total | mg/L | 0.348 | 0.004 | | | 0.01150 | | | 0.0055 | 0.174 | 0.007 |
| Field pH | pH units | 6.0-9.5 | 8.02 | | | 7.44 | 7.91 | | 7.95 | 6.0-9.5 | 7.83 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | Pass | | | | | | | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | Pass | | | | | | | Pass | Pass |
| CBOD5 | mg/L | | 2 | | | 2 | | | 2 | 25 | 2.00 |
| Cadmium | mg/L | | 0.000019 | | | 0.000011 | | | 0.000038 | 0.001 | 0.00002 |
| Cobalt | mg/L | | 0.0011 | | | 0.00109 | | | 0.00177 | 0.0044 | 0.0013 |
| <i>E. coli</i> | MPN/100mL | | 10 | | | 10 | | | 10 | 100 | 10.00 |

Table C20: May 2022 EDL 1 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 5/30/2022 | 5/27/2022 | 5/25/2022 | 5/23/2022 | 5/20/2022 | 5/18/2022 | 5/16/2022 | 5/13/2022 | 5/11/2022 | 5/9/2022 | 5/4/2022 | ECA Monthly | May 2022 Average |
|--------------------------------------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-------------|------------------|
| | | | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | | EDL1 |
| Total Suspended Solids | mg/L | 30 | 10 | 5 | 2 | 6 | 5 | 5.5 | 16 | 11 | 7 | 8.5 | 2 | 15 | 7.09 |
| Ammonia, Unionized | mg/L | 0.080 | | | 0.00100 | | | 0.00300 | | | 0.00200 | | 0.00100 | 0.04 | 0.0018 |
| Phosphorus, Total | mg/L | | | | 0.01000 | | | 0.01250 | | | 0.01700 | | 0.01000 | 0.1 | 0.012 |
| Cyanide, Total | mg/L | 0.1 | 0.0006 | 0.0006 | 0.0004 | 0.0002 | 0.0004 | 0.0004 | 0.0010 | 0.0002 | 0.0004 | 0.0006 | 0.0008 | 0.05 | 0.0005 |
| Cyanide, Free | mg/L | 0.02 | 0.0001 | 0.0008 | 0.0001 | 0.0009 | 0.0005 | 0.0008 | 0.0008 | 0.0001 | 0.0006 | 0.0004 | 0.0002 | 0.01 | 0.0005 |
| Arsenic, Total | mg/L | 0.034 | | | 0.00130 | | | 0.00127 | | | 0.00130 | | 0.00140 | 0.017 | 0.001 |
| Copper, Total | mg/L | 0.028 | | | 0.00430 | | | 0.00415 | | | 0.00475 | | 0.00630 | 0.014 | 0.005 |
| Lead, Total | mg/L | 0.03 | | | 0.00010 | | | 0.00008 | | | 0.00016 | | 0.00002 | 0.015 | 0.000 |
| Nickel, Total | mg/L | 0.094 | | | 0.00170 | | | 0.00138 | | | 0.00152 | | 0.00110 | 0.047 | 0.001 |
| Zinc, Total | mg/L | 0.348 | | | 0.00300 | | | 0.00240 | | | 0.00340 | | 0.00100 | 0.174 | 0.002 |
| Field pH | pH units | 6.0-9.5 | | | 7.64 | | | 7.79 | | | 7.68 | | 7.33 | 6.0-9.5 | 7.61 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | | | | | | | | | | | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | | | | | | | | | | | Pass | Pass | Pass |
| CBOD5 | mg/L | | | | 2 | | | 2 | | | 2 | | 2 | 25 | 2.00 |
| Cadmium | mg/L | | | | 0.000014 | | | 0.0000114 | | | 0.000016 | | 0.0000098 | 0.001 | 0.00001 |
| Cobalt | mg/L | | | | 0.0008 | | | 0.00079 | | | 0.00081 | | 0.001 | 0.0044 | 0.0009 |
| <i>E. coli</i> | MPN/100mL | | | | 10 | | | 10 | | | 20 | | 0 | 100 | 10.00 |

Table C21: June 2022 EDL 1 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 6/29/2022 | 6/27/2022 | 6/24/2022 | 6/20/2022 | 6/22/2022 | 6/17/2022 | 6/15/2022 | 6/13/2022 | 6/10/2022 | 6/8/2022 | 6/6/2022 | 6/1/2022 | ECA Monthly | May 2022 Average |
|--------------------------------------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-------------|------------------|
| | | | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | | |
| Total Suspended Solids | mg/L | 30 | 3.5 | 4.5 | 2.5 | 6 | 6 | 4 | 7 | 7.5 | 6 | 4.5 | 2.5 | 13.5 | 15 | 5.63 |
| Ammonia, Unionized | mg/L | 0.080 | 0.021 | | | | 0.003 | | 0.002 | | | 0.004 | | 0.002 | 0.04 | 0.006 |
| Phosphorus, Total | mg/L | | 0.10 | | | | 0.06 | | 0.06 | | | 0.02 | | 0.02 | 0.1 | 0.05 |
| Cyanide, Total | mg/L | 0.1 | 0.0008 | 0.0006 | 0.0006 | 0.0006 | 0.0004 | 0.0004 | 0.0008 | 0.0010 | 0.0014 | 0.0020 | 0.0006 | 0.0016 | 0.05 | 0.0009 |
| Cyanide, Free | mg/L | 0.02 | 0.0001 | 0.0001 | 0.0001 | 0.0004 | 0.0002 | 0.0001 | 0.0001 | 0.0002 | 0.0003 | 0.0003 | 0.0009 | 0.0006 | 0.01 | 0.0003 |
| Arsenic, Total | mg/L | 0.034 | 0.0024 | | | | 0.00260 | | 0.0032 | | | 0.00140 | | 0.00130 | 0.017 | 0.0022 |
| Copper, Total | mg/L | 0.028 | 0.0024 | | | | 0.00290 | | 0.0026 | | | 0.00390 | | 0.00450 | 0.014 | 0.0033 |
| Lead, Total | mg/L | 0.03 | 0.00001 | | | | 0.00004 | | 0.00003 | | | 0.00005 | | 0.00020 | 0.015 | 0.0001 |
| Nickel, Total | mg/L | 0.094 | 0.0013 | | | | 0.00130 | | 0.00096 | | | 0.00130 | | 0.00180 | 0.047 | 0.0013 |
| Zinc, Total | mg/L | 0.348 | 0.0010 | | | | 0.00150 | | 0.0025 | | | 0.00150 | | 0.00300 | 0.174 | 0.0019 |
| Field pH | pH units | 6.0-9.5 | 8.37 | | | | 7.59 | | 7.44 | 7.88 | 7.92 | 7.91 | | 7.78 | 6.0-9.5 | 7.84 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | | | | | | | | | | | | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | | | | | | | | | | | | Pass | Pass | Pass |
| CBOD5 | mg/L | | 2 | | | | 2.1 | | 2.2 | | | 2 | | 2 | 25 | 2.06 |
| Cadmium | mg/L | | 0.000003 | | | | 0.000011 | | 0.000014 | | | 0.00001 | | 0.000021 | 0.001 | 0.00001 |
| Cobalt | mg/L | | 0.00084 | | | | 0.00089 | | 0.0008 | | | 0.00079 | | 0.0009 | 0.0044 | 0.00084 |
| <i>E. coli</i> | MPN/100mL | | 10 | | | | 10 | | 10 | | | 10 | | | 100 | 10.00 |

Table C22: July 2022 EDL 1 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 7/31/2022 | 7/7/2022 | ECA Monthly | July 2022 Average |
|--------------------------------------|-----------|-----------------|-----------|----------|-------------|-------------------|
| | | | EDL1 | EDL1 | | |
| Total Suspended Solids | mg/L | 30 | 6 | 4 | 15 | 5.00 |
| Ammonia, Unionized | mg/L | 0.080 | 0.016 | 0.004 | 0.04 | 0.010 |
| Phosphorus, Total | mg/L | | 0.025 | 0.095 | 0.1 | 0.060 |
| Cyanide, Total | mg/L | 0.1 | 0.0002 | 0.0006 | 0.05 | 0.0004 |
| Cyanide, Free | mg/L | 0.02 | 0.0001 | 0.0003 | 0.01 | 0.0002 |
| Arsenic, Total | mg/L | 0.034 | 0.0018 | 0.0018 | 0.017 | 0.0018 |
| Copper, Total | mg/L | 0.028 | 0.0038 | 0.0026 | 0.014 | 0.0032 |
| Lead, Total | mg/L | 0.03 | 0.00003 | 0.00001 | 0.015 | 0.00002 |
| Nickel, Total | mg/L | 0.094 | 0.0013 | 0.0010 | 0.047 | 0.0012 |
| Zinc, Total | mg/L | 0.348 | 0.0020 | 0.0005 | 0.174 | 0.0013 |
| Field pH | pH units | 6.0-9.5 | 7.59 | 7.89 | 6.0-9.5 | 7.74 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | Pass | | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | Pass | | Pass | Pass |
| CBOD5 | mg/L | | 2 | 25 | 25 | 13.5 |
| Cadmium | mg/L | | 0.000006 | 0.001 | 0.001 | 0.000503 |
| Cobalt | mg/L | | 0.00152 | 0.0044 | 0.0044 | 0.00296 |
| <i>E. coli</i> | MPN/100mL | | 10 | 20 | 100 | 15 |

Table C23: August 2022 EDL 1 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 8/8/2022 | 8/5/2022 | 8/3/2022 | ECA Monthly | August 2022 |
|--------------------------------------|-----------|-----------------|----------|----------|----------|-------------|-------------|
| | | | EDL1 | EDL1 | EDL1 | | Average |
| Total Suspended Solids | mg/L | 30 | 8 | 8.5 | 3.5 | 15 | 6.67 |
| Ammonia, Unionized | mg/L | 0.080 | 0.046 | | 0.004 | 0.04 | 0.025 |
| Phosphorus, Total | mg/L | | 0.005 | | 0.050 | 0.1 | 0.028 |
| Cyanide, Total | mg/L | 0.1 | 0.0008 | 0.0006 | 0.0008 | 0.05 | 0.0007 |
| Cyanide, Free | mg/L | 0.02 | 0.0004 | 0.0020 | 0.0006 | 0.01 | 0.0010 |
| Arsenic, Total | mg/L | 0.034 | 0.0018 | | 0.0017 | 0.017 | 0.0017 |
| Copper, Total | mg/L | 0.028 | 0.0037 | | 0.0031 | 0.014 | 0.0034 |
| Lead, Total | mg/L | 0.03 | 0.00002 | | 0.00001 | 0.015 | 0.00002 |
| Nickel, Total | mg/L | 0.094 | 0.0014 | | 0.0012 | 0.047 | 0.0013 |
| Zinc, Total | mg/L | 0.348 | 0.0055 | | 0.0005 | 0.174 | 0.0030 |
| Field pH | pH units | 6.0-9.5 | 7.86 | 7.47 | 7.19 | 6.0-9.5 | 7.50666667 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | | | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | | | Pass | Pass | Pass |
| CBOD5 | mg/L | | 2 | | 2 | 25 | 2 |
| Cadmium | mg/L | | 0.000006 | | 0.000006 | 0.001 | 0.000006 |
| Cobalt | mg/L | | 0.00171 | | 0.00162 | 0.0044 | 0.001665 |
| <i>E. coli</i> | MPN/100mL | | 20 | | 10 | 100 | 15 |

Table C24: September 2022 EDL 1 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 9/28/2022 | 9/26/2022 | 9/23/2022 | 9/21/2022 | ECA Monthly Limit | September |
|--------------------------------------|-----------|-----------------|-----------|-----------|-----------|-----------|-------------------|--------------|
| | | | EDL1 | EDL1 | EDL1 | EDL1 | | 2022 Average |
| Total Suspended Solids | mg/L | 30 | 2.5 | 1.5 | 5 | 3 | 15 | 3 |
| Ammonia, Unionized | mg/L | 0.080 | 0.049 | | | 0.023 | 0.04 | 0.036 |
| Phosphorus, Total | mg/L | | 0.012 | | | 0.015 | 0.1 | 0.013 |
| Cyanide, Total | mg/L | 0.1 | 0.0006 | 0.0004 | 0.0004 | 0.0002 | 0.05 | 0.0004 |
| Cyanide, Free | mg/L | 0.02 | 0.0001 | 0.0006 | 0.0006 | 0.001 | 0.01 | 0.000 |
| Arsenic, Total | mg/L | 0.034 | 0.002 | | | 0.002 | 0.017 | 0.002 |
| Copper, Total | mg/L | 0.028 | 0.0025 | | | 0.003 | 0.014 | 0.003 |
| Lead, Total | mg/L | 0.03 | 0.00001 | | | 0.00001 | 0.015 | 0.00001 |
| Nickel, Total | mg/L | 0.094 | 0.0021 | | | 0.003 | 0.047 | 0.003 |
| Zinc, Total | mg/L | 0.348 | 0.0225 | | | 0.044 | 0.174 | 0.033 |
| Field pH | pH units | 6.0-9.5 | 8.28 | | | 7.86 | 6.0-9.5 | 8.07 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | Pass | | | | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | Pass | | | | Pass | Pass |
| CBOD5 | mg/L | | 2 | | | 2.0 | 25 | 2.0 |
| Cadmium | mg/L | | 0.000014 | | | 0.00003 | 0.001 | 0.00002 |
| Cobalt | mg/L | | 0.00201 | | | 0.0018 | 0.0044 | 0.0019 |
| <i>E. coli</i> | MPN/100mL | | 19 | | | 276 | 100 | 148 |

Table C25: October 2022 EDL 1 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 10/31/2022 | 10/28/2022 | 10/26/2022 | 10/24/2022 | ECA Monthly Limit | October 2022 Average |
|--------------------------------------|-----------|-----------------|------------|------------|------------|------------|-------------------|----------------------|
| | | | EDL1 | EDL1 | EDL1 | EDL1 | | |
| Total Suspended Solids | mg/L | 30 | 4.5 | 1 | 4.5 | 2 | 15 | 2.00 |
| Ammonia, Unionized | mg/L | 0.080 | | | 0.081 | | 0.04 | 0.081 |
| Phosphorus, Total | mg/L | | | | 0.012 | | 0.1 | 0.012 |
| Cyanide, Total | mg/L | 0.1 | 0.0016 | 0.0016 | 0.0012 | 0.0014 | 0.05 | 0.0014 |
| Cyanide, Free | mg/L | 0.02 | 0.0013 | 0.0016 | 0.0005 | 0.001 | 0.01 | 0.001 |
| Arsenic, Total | mg/L | 0.034 | | | 0.001 | | 0.017 | 0.001 |
| Copper, Total | mg/L | 0.028 | | | 0.00276 | | 0.014 | 0.00276 |
| Lead, Total | mg/L | 0.03 | | | 0.00005 | | 0.015 | 0.00005 |
| Nickel, Total | mg/L | 0.094 | | | 0.00267 | | 0.047 | 0.00267 |
| Zinc, Total | mg/L | 0.348 | | | 0.018 | | 0.174 | 0.018 |
| Field pH | pH units | 6.0-9.5 | 7.27 | 8.68 | 8.74 | | 6.0-9.5 | 8.230 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | | | Pass | | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | | | Pass | | Pass | Pass |
| CBOD5 | mg/L | | | | 2 | | 25 | 2 |
| Cadmium | mg/L | | | | 0.000022 | | 0.001 | 0.000022 |
| Cobalt | mg/L | | | | 0.00199 | | 0.0044 | 0.00199 |
| <i>E. coli</i> | MPN/100mL | | | | 50 | | 100 | 50 |

Table C26: November 2022 EDL 1 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 11/16/2022 | 11/14/2022 | 11/10/2022 | 11/9/2022 | 11/2/2022 | ECA Monthly Limit | November 2022 Average |
|--------------------------------------|-----------|-----------------|------------|------------|------------|-----------|-----------|-------------------|-----------------------|
| | | | EDL1 | EDL1 | EDL1 | EDL1 | EDL1 | | |
| Total Suspended Solids | mg/L | 30 | 2 | 2 | 8.5 | 2 | 3 | 15 | 3.50 |
| Ammonia, Unionized | mg/L | 0.080 | 0.009 | | | 0.011 | 0.004 | 0.04 | 0.01 |
| Phosphorus, Total | mg/L | | 0.013 | | | 0.012 | 0.017 | 0.1 | 0.01 |
| Cyanide, Total | mg/L | 0.1 | 0.0008 | 0.0012 | 0.0016 | 0.001 | 0.0012 | 0.05 | 0.00 |
| Cyanide, Free | mg/L | 0.02 | 0.0005 | 0.0008 | 0.001 | 0.0007 | 0.0014 | 0.01 | 0.00 |
| Arsenic, Total | mg/L | 0.034 | 0.0011 | | | 0.00127 | 0.00121 | 0.017 | 0.00 |
| Copper, Total | mg/L | 0.028 | 0.005 | | | 0.00375 | 0.0025 | 0.014 | 0.00 |
| Lead, Total | mg/L | 0.03 | 0.0005 | | | 0.00008 | 0.00005 | 0.015 | 0.00 |
| Nickel, Total | mg/L | 0.094 | 0.005 | | | 0.004 | 0.00486 | 0.047 | 0.00 |
| Zinc, Total | mg/L | 0.348 | 0.03 | | | 0.03 | 0.105 | 0.174 | 0.06 |
| Field pH | pH units | 6.0-9.5 | 7.78 | 6.77 | 7.80 | 7.85 | 7.5 | 6.0-9.5 | 7.54 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | | | | | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | | | | | Pass | Pass | Pass |
| CBOD5 | mg/L | | 2.0 | | | 2.0 | 2.0 | 25 | 2.00 |
| Cadmium | mg/L | | 0.00005 | | | 0.0000228 | 0.0000469 | 0.001 | 0.00004 |
| Cobalt | mg/L | | 0.0019 | | | 0.00207 | 0.00185 | 0.0044 | 0.0019 |
| <i>E. coli</i> | MPN/100mL | | 10 | | | 10 | 10 | 100 | 10.00 |

Table C27: April 2022 EDL 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 4/27/2022 | 4/25/2022 | 4/22/2022 | 4/20/2022 | 4/18/2022 | ECA Monthly Limit | April 2022 Average |
|--------------------------------------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-------------------|--------------------|
| | | | EDL2 | EDL2 | EDL2 | EDL2 | EDL2 | | |
| Total Suspended Solids | mg/L | 30 | 3 | 5 | 0.5 | 1.5 | 0.5 | 15 | 2.100 |
| Ammonia, Unionized | mg/L | 0.080 | 0.002 | | | 0.002 | | 0.04 | 0.0020 |
| Phosphorus, Total | mg/L | | 0.0020 | | | 0.0050 | | 0.1 | 0.0035 |
| Cyanide, Total | mg/L | 0.1 | 0.0006 | 0.0004 | 0.0014 | 0.0004 | 0.0006 | 0.05 | 0.00068 |
| Cyanide, Free | mg/L | 0.02 | 0.0003 | 0.0001 | 0.0001 | 0.0004 | 0.0003 | 0.01 | 0.00024 |
| Arsenic, Total | mg/L | 0.034 | 0.00180 | | | 0.00200 | | 0.017 | 0.00190 |
| Copper, Total | mg/L | 0.028 | 0.0062 | | | 0.006 | | 0.014 | 0.0061 |
| Lead, Total | mg/L | 0.03 | 0.00004 | | | 0.00003 | | 0.015 | 0.0000 |
| Nickel, Total | mg/L | 0.094 | 0.0022 | | | 0.0015 | | 0.047 | 0.0019 |
| Zinc, Total | mg/L | 0.348 | 0.017 | | | 0.003 | | 0.174 | 0.010 |
| Field pH | pH units | 6.0-9.5 | 7.44 | | | 7.74 | | 6.0-9.5 | 7.59 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | Pass | | | | | Pass | |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | Pass | | | | | Pass | |
| CBOD5 | mg/L | | 2 | | | 2 | | 25 | 2.00 |
| Cadmium | mg/L | | 0.000021 | | | 0.00001 | | 0.001 | 0.000016 |
| Cobalt | mg/L | | 0.0013 | | | 0.00102 | | 0.0044 | 0.00116 |
| <i>E. coli</i> | MPN/100mL | | 10 | | | 10 | | 100 | 10.00 |

Table C28: May 2022 EDL 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 5/30/2022 | 5/27/2022 | 5/25/2022 | 5/23/2022 | 5/20/2022 | 5/18/2022 | 5/16/2022 | 5/13/2022 | 5/11/2022 | 5/9/2022 | 5/4/2022 | ECA Monthly Limit | May 2022 Average |
|--------------------------------------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-------------------|------------------|
| | | | EDL2 | EDL2 | EDL2 | EDL2 | EDL2 | EDL2 | EDL2 | EDL2 | EDL2 | EDL2 | EDL2 | | |
| Total Suspended Solids | mg/L | 30 | 18.0 | 5.0 | 4.0 | 6.0 | 5.5 | 5.5 | 12.5 | 10 | 3.5 | 14.5 | 3 | 15 | 8.0 |
| Ammonia, Unionized | mg/L | 0.080 | | | 0.0010 | | | 0.003 | | | 0.002 | | 0.001 | 0.04 | 0.002 |
| Phosphorus, Total | mg/L | | | | 0.0800 | | | 0.0060 | | | 0.0700 | | 0.0020 | 0.1 | 0.0395 |
| Cyanide, Total | mg/L | 0.1 | 0.0004 | 0.0010 | 0.0004 | 0.0002 | 0.0004 | 0.0004 | 0.00060 | 0.00340 | 0.0006 | 0.0008 | 0.00020 | 0.05 | 0.00076 |
| Cyanide, Free | mg/L | 0.02 | 0.0001 | 0.0008 | 0.0003 | 0.0005 | 0.0004 | 0.0008 | 0.0007 | 0.0008 | 0.001 | 0.0004 | 0.0008 | 0.01 | 0.001 |
| Arsenic, Total | mg/L | 0.034 | | | 0.0048 | | | 0.0013 | | | 0.0013 | | 0.0015 | 0.017 | 0.002 |
| Copper, Total | mg/L | 0.028 | | | 0.0018 | | | 0.0042 | | | 0.00475 | | 0.0057 | 0.014 | 0.004 |
| Lead, Total | mg/L | 0.03 | | | 0.0002 | | | 0.00008 | | | 0.00016 | | 0.00002 | 0.015 | 0.000 |
| Nickel, Total | mg/L | 0.094 | | | 0.0017 | | | 0.00138 | | | 0.00152 | | 0.0011 | 0.047 | 0.001 |
| Zinc, Total | mg/L | 0.348 | | | 0.0070 | | | 0.0024 | | | 0.0034 | | 0.0004 | 0.174 | 0.003 |
| Field pH | pH units | 6.0-9.5 | | | 6.99 | | | 7.79 | | | 7.68 | | 7.01 | 6.0-9.5 | 7.37 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | | | | | | | | | | | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | | | | | | | | | | | Pass | Pass | Pass |
| CBOD5 | mg/L | | | | 13.2 | | | 2 | | | 2 | | 2 | 25 | 4.8 |
| Cadmium | mg/L | | | | 0.00001 | | | 0.0000114 | | | 0.000016 | | 0.000018 | 0.001 | 0.00001 |
| Cobalt | mg/L | | | | 0.0013 | | | 0.00079 | | | 0.00081 | | 0.001 | 0.0044 | 0.001 |
| <i>E. coli</i> | MPN/100mL | | | | 20 | | | 10 | | | 20 | | 1 | 100 | 12.8 |

Table C29: June 2022 EDL 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 6/8/2022 | 6/6/2022 | 6/1/2022 | ECA Monthly | June 2022 Average |
|--------------------------------------|-----------|-----------------|----------|----------|----------|----------------|-------------------|
| | | | EDL2 | EDL2 | EDL2 | | |
| Total Suspended Solids | mg/L | 30 | 8.0 | 5.5 | 6.5 | 15 | 6.7 |
| Ammonia, Unionized | mg/L | 0.080 | 0.001 | | 0.001 | 0.04 | 0.001 |
| Phosphorus, Total | mg/L | | 0.13 | | 0.07 | 0.1 | 0.1 |
| Cyanide, Total | mg/L | 0.1 | 0.0002 | 0.0002 | 0.0006 | 0.05 | 0.00033 |
| Cyanide, Free | mg/L | 0.02 | 0.0001 | 0.0008 | 0.0003 | 0.01 | 0.0004 |
| Arsenic, Total | mg/L | 0.034 | 0.0037 | | 0.0036 | 0.017 | 0.004 |
| Copper, Total | mg/L | 0.028 | 0.0009 | | 0.0007 | 0.014 | 0.001 |
| Lead, Total | mg/L | 0.03 | 0.0001 | | 0.0001 | 0.015 | 0.000 |
| Nickel, Total | mg/L | 0.094 | 0.0009 | | 0.0012 | 0.047 | 0.001 |
| Zinc, Total | mg/L | 0.348 | 0.0005 | | 0.0080 | 0.174 | 0.004 |
| Field pH | pH units | 6.0-9.5 | 7.05 | | 7.62 | 6.0-9.5 | 7.34 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | | | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | | | Pass | Pass | Pass |
| CBOD5 | mg/L | | 13.2 | | 8.1 | 25 | 10.7 |
| Cadmium | mg/L | | 0.000001 | | 0.00001 | 0.001 | 0.000004 |
| Cobalt | mg/L | | 0.0007 | | 0.0009 | 0.0044 | 0.001 |
| <i>E. coli</i> | MPN/100mL | | 10.0000 | | 10 | 100 | 10.0 |

Table C30: July 2022 EDL 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 7/29/2022 | ECA Monthly Limit | July 2022 Average |
|--------------------------------------|-----------|-----------------|-----------|-------------------|-------------------|
| | | | EDL2 | | |
| Total Suspended Solids | mg/L | 30 | 8.0 | 15 | 8.0 |
| Ammonia, Unionized | mg/L | 0.080 | 0.001 | 0.04 | 0.001 |
| Phosphorus, Total | mg/L | | 0.1 | 0.1 | 0.1 |
| Cyanide, Total | mg/L | 0.1 | 0.0012 | 0.05 | 0.00120 |
| Cyanide, Free | mg/L | 0.02 | 0.0005 | 0.01 | 0.001 |
| Arsenic, Total | mg/L | 0.034 | 0.0013 | 0.017 | 0.001 |
| Copper, Total | mg/L | 0.028 | 0.0019 | 0.014 | 0.0019 |
| Lead, Total | mg/L | 0.03 | 0.0001 | 0.015 | 0.0001 |
| Nickel, Total | mg/L | 0.094 | 0.0082 | 0.047 | 0.008 |
| Zinc, Total | mg/L | 0.348 | 0.4840 | 0.174 | 0.484 |
| Field pH | pH units | 6.0-9.5 | 6.92 | 6.0-9.5 | 6.92 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | Pass | Pass | Pass |
| CBOD5 | mg/L | | 2.0 | 25 | 2.0 |
| Cadmium | mg/L | | 0.00033 | 0.001 | 0.000325 |
| Cobalt | mg/L | | 0.0040 | 0.0044 | 0.004 |
| <i>E. coli</i> | MPN/100mL | | 50 | 100 | 50.0 |

Table C31: October 2022 EDL 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 10/31/2022 | 10/28/2022 | 10/26/2022 | 10/21/2022 | ECA Monthly | October 2022 Average |
|--------------------------------------|-----------|-----------------|------------|------------|------------|------------|-------------|----------------------|
| | | | EDL2 | EDL2 | EDL2 | EDL2 | | |
| Total Suspended Solids | mg/L | 30 | 3 | 2 | 4.5 | 2.0 | 15 | 2.9 |
| Ammonia, Unionized | mg/L | 0.080 | | | 0.056 | 0.017 | 0.04 | 0.037 |
| Phosphorus, Total | mg/L | | | | 0.02 | 0.01 | 0.1 | 0.02 |
| Cyanide, Total | mg/L | 0.1 | 0.0016 | 0.0018 | 0.0012 | 0.0008 | 0.05 | 0.001 |
| Cyanide, Free | mg/L | 0.02 | 0.0013 | 0.0016 | 0.0005 | 0.0010 | 0.01 | 0.001 |
| Arsenic, Total | mg/L | 0.034 | | | 0.0015 | 0.0014 | 0.017 | 0.001 |
| Copper, Total | mg/L | 0.028 | | | 0.0074 | 0.0029 | 0.014 | 0.005 |
| Lead, Total | mg/L | 0.03 | | | 0.0001 | 0.0001 | 0.015 | 0.0001 |
| Nickel, Total | mg/L | 0.094 | | | 0.0029 | 0.0027 | 0.047 | 0.0028 |
| Zinc, Total | mg/L | 0.348 | | | 0.0384 | 0.0314 | 0.174 | 0.035 |
| Field pH | pH units | 6.0-9.5 | 7.24 | 8.68 | 8.51 | 7.96 | 6.0-9.5 | 8.10 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | | | | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | | | | Pass | Pass | Pass |
| CBOD5 | mg/L | | | | 2.0 | 2.0 | 25 | 2.0 |
| Cadmium | mg/L | | | | 0.0005 | 0.00003 | 0.001 | 0.0002 |
| Cobalt | mg/L | | | | 0.0020 | 0.0018 | 0.0044 | 0.002 |
| <i>E. coli</i> | MPN/100mL | | | | 10.0 | 5 | 100 | 7.5 |

Table C32: November 2022 EDL 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 11/10/2022 | 11/9/2022 | 11/2/2022 | ECA Monthly | November 2022 |
|--------------------------------------|-----------|-----------------|------------|-----------|-----------|-------------|---------------|
| | | | EDL2 | EDL2 | EDL2 | | |
| Total Suspended Solids | mg/L | 30 | 6.5 | 3 | 2 | 15 | 3.8 |
| Ammonia, Unionized | mg/L | 0.080 | | 0.010 | 0.005 | 0.04 | 0.0075 |
| Phosphorus, Total | mg/L | | | 0.009 | 0.018 | 0.1 | 0.0133 |
| Cyanide, Total | mg/L | 0.1 | 0.0020 | 0.0006 | 0.0018 | 0.05 | 0.0015 |
| Cyanide, Free | mg/L | 0.02 | 0.0012 | 0.0003 | 0.0016 | 0.01 | 0.0010 |
| Arsenic, Total | mg/L | 0.034 | | 0.00108 | 0.00122 | 0.017 | 0.0012 |
| Copper, Total | mg/L | 0.028 | | 0.00235 | 0.00356 | 0.014 | 0.003 |
| Lead, Total | mg/L | 0.03 | | 0.00004 | 0.0001 | 0.015 | 0.0001 |
| Nickel, Total | mg/L | 0.094 | | 0.00396 | 0.00588 | 0.047 | 0.0049 |
| Zinc, Total | mg/L | 0.348 | | 0.0274 | 0.143 | 0.174 | 0.0852 |
| Field pH | pH units | 6.0-9.5 | 7.92 | 7.82 | 7.53 | 6.0-9.5 | 7.8 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | | | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | | | Pass | Pass | Pass |
| CBOD5 | mg/L | | | | 2.9 | 25 | 2.9 |
| Cadmium | mg/L | | | 0.0000178 | 0.0000669 | 0.001 | 0.00004 |
| Cobalt | mg/L | | | 0.00195 | 0.00188 | 0.0044 | 0.0019 |
| <i>E. coli</i> | MPN/100mL | | | 10 | 10 | 100 | 10.0 |

Table C33: April 2022 Sediment Pond 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 4/27/2022 | 4/20/2022 | 4/13/2022 | ECA Monthly Limit | December 2021 |
|--------------------------------------|-----------|-----------------|------------|------------|------------|-------------------|---------------|
| | | | Sed Pond 2 | Sed Pond 2 | Sed Pond 2 | | |
| Total Suspended Solids | mg/L | 30 | 6.5 | 3 | | 15 | 4.75 |
| Ammonia, Unionized | mg/L | 0.080 | 0.001 | 0.001 | 0.001 | 0.04 | 0.00100 |
| Phosphorus, Total | mg/L | | 0.021 | 0.021 | 0.019 | 0.1 | 0.02033 |
| Cyanide, Total | mg/L | 0.1 | 0.0042 | 0.0008 | 0.0012 | 0.05 | 0.00207 |
| Cyanide, Free | mg/L | 0.02 | 0.0019 | 0.001 | 0.0003 | 0.01 | 0.00107 |
| Arsenic, Total | mg/L | 0.034 | 0.00108 | 0.0012 | 0.0012 | 0.017 | 0.00116 |
| Copper, Total | mg/L | 0.028 | 0.00165 | 0.0016 | 0.0017 | 0.014 | 0.00165 |
| Lead, Total | mg/L | 0.03 | 0.00024 | 0.00014 | 0.00013 | 0.015 | 0.000170 |
| Nickel, Total | mg/L | 0.094 | 0.00142 | 0.0013 | 0.0012 | 0.047 | 0.00131 |
| Zinc, Total | mg/L | 0.348 | 0.003 | 0.0035 | 0.003 | 0.174 | 0.00317 |
| Field pH | pH units | 6.0-9.5 | 7.56 | 7.62 | 7.4 | 6.0-9.5 | 7.53 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | Pass | | | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | Pass | | | Pass | Pass |
| CBOD5 | mg/L | | 2 | 2 | 2 | 25 | 2.00 |
| Cadmium | mg/L | | 0.00037 | 0.00032 | 0.00032 | 0.001 | 0.000337 |
| Cobalt | mg/L | | 2 | 2 | 2 | 0.0044 | 2.000000 |
| <i>E. coli</i> | MPN/100mL | | 10 | 10 | 10 | 100 | 10.00 |

Table C34: May 2022 Sediment Pond 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 5/25/2022 | 5/18/2022 | 5/11/2022 | 5/4/2022 | ECA Monthly | May 2022 Average |
|--------------------------------------|-----------|-----------------|------------|------------|------------|------------|-------------|------------------|
| | | | Sed Pond 2 | Sed Pond 2 | Sed Pond 2 | Sed Pond 2 | | |
| Total Suspended Solids | mg/L | 30 | 5 | 3.5 | 3 | 6 | 15 | 4.38 |
| Ammonia, Unionized | mg/L | 0.080 | 0.001 | 0.001 | 0.001 | 0.001 | 0.04 | 0.001 |
| Phosphorus, Total | mg/L | | 0.016 | 0.014 | 0.015 | 0.012 | 0.1 | 0.01 |
| Cyanide, Total | mg/L | 0.1 | 0.0016 | 0.0004 | 0.0006 | 0.0016 | 0.05 | 0.00 |
| Cyanide, Free | mg/L | 0.02 | 0.0002 | 0.0008 | 0.0003 | 0.002 | 0.01 | 0.00 |
| Arsenic, Total | mg/L | 0.034 | 0.00134 | 0.00125 | 0.00169 | 0.00108 | 0.017 | 0.001 |
| Copper, Total | mg/L | 0.028 | 0.0016 | 0.0017 | 0.0016 | 0.00145 | 0.014 | 0.002 |
| Lead, Total | mg/L | 0.03 | 0.00012 | 0.00008 | 0.00006 | 0.0002 | 0.015 | 0.000 |
| Nickel, Total | mg/L | 0.094 | 0.0012 | 0.0011 | 0.00124 | 0.0011 | 0.047 | 0.001 |
| Zinc, Total | mg/L | 0.348 | 0.0144 | 0.0016 | 0.0018 | 0.0026 | 0.174 | 0.005 |
| Field pH | pH units | 6.0-9.5 | 7.83 | 7.85 | 7.45 | 7.51 | 6.0-9.5 | 7.66 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | | | | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | | | | Pass | Pass | Pass |
| CBOD5 | mg/L | | 2 | 2 | 2 | 2 | | 2 |
| Cadmium | mg/L | | 0.000051 | 0.0000082 | 0.0000062 | 0.000014 | 0.001 | 0.00002 |
| Cobalt | mg/L | | 0.00038 | 0.00031 | 0.00041 | 0.00034 | 0.0044 | 0.0004 |
| <i>E. coli</i> | MPN/100mL | | 10 | 10 | 10 | 0 | 100 | 7.50 |

Table C35: June 2022 Sediment Pond 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 6/29/2022 | 6/22/2022 | 6/15/2022 | 6/8/2022 | 6/1/2022 | ECA Monthly Limit | June 2022 Average |
|--------------------------------------|-----------|-----------------|------------|------------|------------|------------|------------|-------------------|-------------------|
| | | | Sed Pond 2 | Sed Pond 2 | Sed Pond 2 | Sed Pond 2 | Sed Pond 2 | | |
| Total Suspended Solids | mg/L | 30 | 4.5 | 4.5 | 7 | 5.5 | 16.5 | 15 | 7.60 |
| Ammonia, Unionized | mg/L | 0.080 | 0.007 | 0.001 | 0.001 | 0.002 | 0.001 | 0.04 | 0.002 |
| Phosphorus, Total | mg/L | | 0.015 | 0.010 | 0.015 | 0.015 | 0.003 | 0.1 | 0.012 |
| Cyanide, Total | mg/L | 0.1 | 0.0006 | 0.0004 | 0.0006 | 0.0006 | 0.0012 | 0.05 | 0.001 |
| Cyanide, Free | mg/L | 0.02 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0009 | 0.01 | 0.0003 |
| Arsenic, Total | mg/L | 0.034 | 0.0016 | 0.0014 | 0.0014 | 0.0015 | 0.00134 | 0.017 | 0.0014 |
| Copper, Total | mg/L | 0.028 | 0.0019 | 0.0018 | 0.0017 | 0.0017 | 0.0017 | 0.014 | 0.0018 |
| Lead, Total | mg/L | 0.03 | 0.00001 | 0.00001 | 0.00001 | 0.00004 | 0.00016 | 0.015 | 0.00005 |
| Nickel, Total | mg/L | 0.094 | 0.0013 | 0.0012 | 0.0009 | 0.0013 | 0.0015 | 0.047 | 0.0012 |
| Zinc, Total | mg/L | 0.348 | 0.0055 | 0.01 | 0.0155 | 0.0255 | 0.0632 | 0.174 | 0.024 |
| Field pH | pH units | 6.0-9.5 | 8.99 | 8.38 | 8.26 | 8.06 | 7.82 | 6.0-9.5 | 8.3 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | | | | | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | | | | | Pass | Pass | Pass |
| CBOD5 | mg/L | | 2 | 2 | 2 | 2 | 2 | | 2.0 |
| Cadmium | mg/L | | 0.00002 | 0.00005 | 0.00006 | 0.00009 | 0.00021 | 0.001 | 0.00009 |
| Cobalt | mg/L | | 0.0002 | 0.00019 | 0.00021 | 0.00023 | 0.00037 | 0.0044 | 0.00024 |
| <i>E. coli</i> | MPN/100mL | | 10 | 10 | | 1 | 30 | 100 | 12.75 |

Table C36: July 2022 Sediment Pond 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 7/28/2022 | 7/7/2022 | ECA Monthly | July 2022 Average |
|--------------------------------------|-----------|-----------------|------------|------------|-------------|-------------------|
| | | | Sed Pond 2 | Sed Pond 2 | | |
| Total Suspended Solids | mg/L | 30 | 3 | 2.5 | 15 | 2.75 |
| Ammonia, Unionized | mg/L | 0.080 | | 0.025 | 0.04 | 0.025 |
| Phosphorus, Total | mg/L | | 0.006 | 0.01 | 0.1 | 0.008 |
| Cyanide, Free | mg/L | 0.02 | 0.0001 | 0.0005 | 0.01 | 0.0003 |
| Cyanide, Total | mg/L | 0.1 | 0.0002 | 0.0002 | 0.05 | 0.0002 |
| Arsenic, Total | mg/L | 0.034 | 0.002 | 0.0015 | 0.017 | 0.0018 |
| Copper, Total | mg/L | 0.028 | 0.0018 | 0.0019 | 0.014 | 0.0019 |
| Lead, Total | mg/L | 0.03 | 0.00001 | 0.00001 | 0.015 | 0.00001 |
| Nickel, Total | mg/L | 0.094 | 0.0009 | 0.0010 | 0.047 | 0.0010 |
| Zinc, Total | mg/L | 0.348 | 0.002 | 0.0035 | 0.174 | 0.0028 |
| Field pH | pH units | 6.0-9.5 | 7.75 | 9.19 | 6.0-9.5 | 8.47 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | Pass | | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | Pass | | Pass | Pass |
| CBOD5 | mg/L | | 2 | 2 | | 2 |
| Cadmium | mg/L | | 0.00000 | 0.00001 | 0.001 | 0.00001 |
| Cobalt | mg/L | | 0.00016 | 0.00019 | 0.0044 | 0.00018 |
| <i>E. coli</i> | MPN/100mL | | 10 | 10 | 100 | 10 |

Table C37: August 2022 Sediment Pond 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 8/3/2022 | ECA Monthly Limit | August 2022 |
|--------------------------------------|-----------|-----------------|------------|-------------------|-------------|
| | | | Sed Pond 2 | | Average |
| Total Suspended Solids | mg/L | 30 | 2 | 15 | 2 |
| Ammonia, Unionized | mg/L | 0.080 | 0.01 | 0.04 | 0.01 |
| Phosphorus, Total | mg/L | | 0.05 | 0.1 | 0.05 |
| Cyanide, Free | mg/L | 0.02 | 0.0004 | 0.01 | 0.0004 |
| Cyanide, Total | mg/L | 0.1 | 0.0003 | 0.05 | 0.0003 |
| Arsenic, Total | mg/L | 0.034 | 0.00211 | 0.017 | 0.0021 |
| Copper, Total | mg/L | 0.028 | 0.00136 | 0.014 | 0.0014 |
| Lead, Total | mg/L | 0.03 | 0.00005 | 0.015 | 0.00005 |
| Nickel, Total | mg/L | 0.094 | 0.0009 | 0.047 | 0.0009 |
| Zinc, Total | mg/L | 0.348 | 0.001 | 0.174 | 0.0010 |
| Field pH | pH units | 6.0-9.5 | 8.15 | 6.0-9.5 | 8.15 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | Pass | Pass | Pass |
| CBOD5 | mg/L | | 2 | | 2 |
| Cadmium | mg/L | | 0.00000 | 0.001 | 0.00000 |
| Cobalt | mg/L | | 0.00015 | 0.0044 | 0.00015 |
| <i>E. coli</i> | MPN/100mL | | 10 | 100 | 10 |

Table C38: September 2022 Sediment Pond 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 9/28/2022 | 9/26/2022 | 9/23/2022 | 9/21/2022 | ECA Monthly Limit | September |
|--------------------------------------|-----------|-----------------|-----------|-----------|-----------|-----------|-------------------|--------------|
| | | | EDL1 | EDL1 | EDL1 | EDL1 | | 2022 Average |
| Total Suspended Solids | mg/L | 30 | 2.5 | 1.5 | 5 | 3 | 15 | 3 |
| Ammonia, Unionized | mg/L | 0.080 | 0.049 | | | 0.023 | 0.04 | 0.036 |
| Phosphorus, Total | mg/L | | 0.012 | | | 0.015 | 0.1 | 0.013 |
| Cyanide, Total | mg/L | 0.1 | 0.0006 | 0.0004 | 0.0004 | 0.0002 | 0.05 | 0.0004 |
| Cyanide, Free | mg/L | 0.02 | 0.0001 | 0.0006 | 0.0006 | 0.001 | 0.01 | 0.000 |
| Arsenic, Total | mg/L | 0.034 | 0.002 | | | 0.002 | 0.017 | 0.002 |
| Copper, Total | mg/L | 0.028 | 0.0025 | | | 0.003 | 0.014 | 0.003 |
| Lead, Total | mg/L | 0.03 | 0.00001 | | | 0.00001 | 0.015 | 0.00001 |
| Nickel, Total | mg/L | 0.094 | 0.0021 | | | 0.003 | 0.047 | 0.003 |
| Zinc, Total | mg/L | 0.348 | 0.0225 | | | 0.044 | 0.174 | 0.033 |
| Field pH | pH units | 6.0-9.5 | 8.28 | | | 7.86 | 6.0-9.5 | 8.07 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | Pass | | | | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | Pass | | | | Pass | Pass |
| CBOD5 | mg/L | | 2 | | | 2.0 | 25 | 2.0 |
| Cadmium | mg/L | | 0.000014 | | | 0.00003 | 0.001 | 0.00002 |
| Cobalt | mg/L | | 0.00201 | | | 0.0018 | 0.0044 | 0.0019 |
| <i>E. coli</i> | MPN/100mL | | 19 | | | 276 | 100 | 148 |

Table C39: October 2022 Sediment Pond 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 10/26/2022 | 10/19/2022 | ECA Monthly | October 2022 Average |
|--------------------------------------|-----------|-----------------|------------|------------|----------------|----------------------|
| | | | Sed Pond 2 | Sed Pond 2 | | |
| Total Suspended Solids | mg/L | 30 | 3 | 2.5 | 15 | 2.75 |
| Ammonia, Unionized | mg/L | 0.080 | 0.001 | 0.01 | 0.04 | 0.0055 |
| Phosphorus, Total | mg/L | | 0.0115 | 0.015 | 0.1 | 0.01325 |
| Cyanide, Free | mg/L | 0.02 | 0.0004 | 0.002 | 0.01 | 0.0012 |
| Cyanide, Total | mg/L | 0.1 | 0.002 | 0.002 | 0.05 | 0.002 |
| Arsenic, Total | mg/L | 0.034 | 0.00198 | 0.002 | 0.017 | 0.00199 |
| Copper, Total | mg/L | 0.028 | 0.00169 | 0.0015 | 0.014 | 0.001595 |
| Lead, Total | mg/L | 0.03 | 0.00005 | 0.00005 | 0.015 | 0.00005 |
| Nickel, Total | mg/L | 0.094 | 0.0010 | 0.0010 | 0.047 | 0.00099 |
| Zinc, Total | mg/L | 0.348 | 0.003 | 0.0018 | 0.174 | 0.0024 |
| Field pH | pH units | 6.0-9.5 | 9.07 | 7.55 | 6.0-9.5 | 8.31 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | | Pass | Pass | Pass |
| CBOD5 | mg/L | | | 2 | 25 | 2 |
| Cadmium | mg/L | | 0.00001 | 0.00001 | 0.001 | 0.000008 |
| Cobalt | mg/L | | 0.0001 | 0.00009 | 0.0044 | 0.0001 |
| <i>E. coli</i> | MPN/100mL | | 10 | 0 | 100 | 5 |

Table C40: November 2022 Sediment Pond 2 Effluent Water Quality for Selected Parameters

| Parameter | Units | ECA Daily Limit | 11/16/2022 | 11/9/2022 | 11/2/2022 | ECA Monthly Limit | November 2022 |
|--------------------------------------|-----------|-----------------|------------|------------|------------|-------------------|---------------|
| | | | Sed Pond 2 | Sed Pond 2 | Sed Pond 2 | | |
| Total Suspended Solids | mg/L | 30 | 2 | 2.5 | 1 | 15 | 1.83 |
| Ammonia, Unionized | mg/L | 0.080 | 0.01 | 0.011 | 0.01 | 0.04 | 0.0103 |
| Phosphorus, Total | mg/L | | 0.012 | 0.014 | 0.053 | 0.1 | 0.0260 |
| Cyanide, Free | mg/L | 0.02 | 0.0006 | 0.0008 | 0.001 | 0.01 | 0.0008 |
| Cyanide, Total | mg/L | 0.1 | 0.0002 | 0.0006 | 0.0006 | 0.05 | 0.0005 |
| Arsenic, Total | mg/L | 0.034 | 0.00185 | 0.0018 | 0.00196 | 0.017 | 0.0019 |
| Copper, Total | mg/L | 0.028 | 0.00159 | 0.00155 | 0.00165 | 0.014 | 0.0016 |
| Lead, Total | mg/L | 0.03 | 0.00005 | 0.00004 | 0.00005 | 0.015 | 0.00005 |
| Nickel, Total | mg/L | 0.094 | 0.0009 | 0.0009 | 0.0010 | 0.047 | 0.0009 |
| Zinc, Total | mg/L | 0.348 | 0.003 | 0.0016 | 0.003 | 0.174 | 0.0025 |
| Field pH | pH units | 6.0-9.5 | 7.91 | 7.97 | 8.03 | 6.0-9.5 | 7.97 |
| Acute Toxicity, Rainbow Trout | Pass/Fail | Pass | | | Pass | Pass | Pass |
| Acute Toxicity, <i>Daphnia magna</i> | Pass/Fail | Pass | | | Pass | Pass | Pass |
| CBOD5 | mg/L | | 2 | 2 | 2 | | 2.0 |
| Cadmium | mg/L | | 0.00001 | 0.00001 | 0.00001 | 0.001 | 0.00001 |
| Cobalt | mg/L | | 0.00014 | 0.000126 | 0.0001 | 0.0044 | 0.0001 |
| <i>E. coli</i> | MPN/100mL | | 0 | 10 | 10 | 100 | 6.67 |

2022 Annual Surface Water Report
Appendix D

Surface Water Certificates of Analysis



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 14-JAN-22
Report Date: 23-FEB-22 07:59 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2678895
Project P.O. #: 4500058071
Job Reference:
C of C Numbers:
Legal Site Desc:

<original signed by>

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-1 FB_SW_20220111 Sampled By: Client on 12-JAN-22 @ 12:00 Matrix: QC | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 0.4 | <DL | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 5.51 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 17-JAN-22 | R5698837 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 17-JAN-22 | R5699359 |
| Turbidity | <0.10 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.004 | <DL | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.032 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 0.15 | <DL | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 15-JAN-22 | 19-JAN-22 | R5701884 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 19-JAN-22 | R5701887 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0006 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000005 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.00002 | <DL | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0030 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 0.034 | <DL | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00010 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 0.0010 | <DL | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00008 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-1 FB_SW_20220111 | | | | | | | |
| Sampled By: Client on 12-JAN-22 @ 12:00 | | | | | | | |
| Matrix: QC | | | | | | | |
| Total Metals | | | | | | | |
| Magnesium (Mg)-Total | <0.0002 | <W | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00004 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.000004 | <DL | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | <0.000005 | <W | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 0.058 | <DL | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 0.040 | <DL | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.000055 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | 0.00007 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.00001 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00015 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | <0.0005 | <W | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | <0.0002 | <W | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | <0.0000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | <0.000005 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0030 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 0.010 | <DL | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00007 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|----------|-----------|-----------|----------|
| L2678895-1 FB_SW_20220111 Sampled By: Client on 12-JAN-22 @ 12:00 Matrix: QC | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 0.055 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 0.025 | <DL | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 0.4 | <DL | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | 0.000135 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00006 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| L2678895-2 SW02_SW_20220111 Sampled By: Client on 11-JAN-22 @ 10:20 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 9.4 | | 0 | mg/L | | 21-JAN-22 | R5703517 |
| pH, Client Supplied | 6.12 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | <0 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 240 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 149 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 91.8 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 6.79 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 1.0 | <DL | 3.0 | mg/L | | 17-JAN-22 | R5698837 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-2 SW02_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 10:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Total Dissolved Solids | 184 | | 13 | mg/L | | 17-JAN-22 | R5699359 |
| Turbidity | 1.44 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 10.0 | | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 73.0 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.152 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-JAN-22 | |
| Chloride (Cl) | 0.65 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.025 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | 0.020 | <T | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 1.66 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 0.45 | <T | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0011 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0014 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | 0.0008 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 54.7 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 50.4 | | 0.50 | mg/L | | 20-JAN-22 | R5703196 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0964 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00092 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.0120 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000062 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0045 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000017 | <T | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 22.1 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000030 | <DL | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00044 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000675 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00036 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 0.675 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00017 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0020 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 9.19 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.296 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000065 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-2 SW02_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 10:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Nickel (Ni)-Total | 0.00080 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 0.67 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00220 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000165 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 8.07 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 1.46 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.0363 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | 0.6 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.00218 | | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.0000380 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00055 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0040 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000192 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0770 | | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.000900 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.0118 | | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0050 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000125 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 21.8 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00031 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000642 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00026 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.588 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | 0.00015 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0022 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 9.06 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.289 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2678895-2 SW02_SW_20220111 Sampled By: Client on 11-JAN-22 @ 10:20 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Molybdenum (Mo)-Dissolved | 0.000052 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00064 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 0.64 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00202 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | 0.000155 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 8.14 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 1.44 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | 0.0349 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 0.6 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00154 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.0000355 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00044 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0044 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000214 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.9 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 134 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | 1.4 | | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| L2678895-3 SW03_SW_20220111 Sampled By: Client on 11-JAN-22 @ 12:40 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | <.1 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | 6.67 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 144 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 394 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 208 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 7.15 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 5.5 | | 3.0 | mg/L | | 14-JAN-22 | R5696890 |
| Total Dissolved Solids | 296 | | 20 | mg/L | | 14-JAN-22 | R5696891 |
| Turbidity | 5.62 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 11.2 | | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 175 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-3 SW03_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 12:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Ammonia, Total (as N) | 0.054 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-JAN-22 | |
| Chloride (Cl) | 14.2 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.064 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | 0.018 | <DL | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 1.50 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | 0.0567 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 14.9 | | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | 0.0002 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 43.7 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 40.1 | | 0.50 | mg/L | | 20-JAN-22 | R5703196 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.207 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000095 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00123 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.0192 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000218 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0140 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000019 | <T | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 48.7 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000270 | | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00076 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000745 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00094 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 1.26 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00016 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0066 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 20.3 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.534 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000240 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00218 | <T | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.095 | | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 2.12 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00193 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000185 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-3 SW03_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 12:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Silicon (Si)-Total | 7.83 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 7.88 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.123 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | 5.6 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00007 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.00742 | | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.000688 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00125 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0045 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000532 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0264 | <T | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000090 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.00118 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.0177 | | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000014 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0150 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000135 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 49.3 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00030 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000670 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00072 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.957 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | 0.00008 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0062 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 20.5 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.534 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000244 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00192 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.095 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 1.99 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00144 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|----------|-----------|-----------|----------|
| L2678895-3 SW03_SW_20220111 Sampled By: Client on 11-JAN-22 @ 12:40 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Selenium (Se)-Dissolved | 0.000215 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 7.59 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 8.07 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | 0.122 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 5.6 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | 0.00006 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | 0.000040 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00202 | | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.000674 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00066 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0034 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000512 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 98 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| L2678895-4 SW06_SW_20220111 Sampled By: Client on 11-JAN-22 @ 12:00 Matrix: QC | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 9.4 | | 0 | mg/L | | 21-JAN-22 | R5703517 |
| pH, Client Supplied | 6.12 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | <0 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 239 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 151 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 90.0 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 6.79 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 0.5 | <DL | 3.0 | mg/L | | 14-JAN-22 | R5696890 |
| Total Dissolved Solids | 178 | | 13 | mg/L | | 14-JAN-22 | R5696891 |
| Turbidity | 1.23 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 10.6 | | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 72.8 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.160 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-JAN-22 | |
| Chloride (Cl) | 0.79 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.025 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-4 SW06_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 12:00 | | | | | | | |
| Matrix: QC | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Nitrate (as N) | 0.010 | <DL | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 1.71 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 0.55 | <T | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0010 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0014 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | 0.0009 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 54.7 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 50.8 | DLM | 2.5 | mg/L | | 20-JAN-22 | R5703196 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0922 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000050 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00088 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.0117 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000104 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0050 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000013 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 21.5 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000010 | <DL | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00044 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000635 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00046 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 0.647 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00018 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0026 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 8.72 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.289 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000055 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00076 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 0.64 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00209 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000165 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 7.86 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 1.38 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.0346 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-4 SW06_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 12:00 | | | | | | | |
| Matrix: QC | | | | | | | |
| Total Metals | | | | | | | |
| Sulfur (S)-Total | 0.4 | <DL | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.00194 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.0000400 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00045 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0040 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000182 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0760 | | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.000908 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.0113 | | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0055 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000105 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 21.6 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00031 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000636 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00028 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.591 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | 0.00015 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0024 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 8.76 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.287 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000054 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00066 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 0.66 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00203 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 8.23 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 1.45 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|----------|-----------|-----------|----------|
| L2678895-4 SW06_SW_20220111 Sampled By: Client on 11-JAN-22 @ 12:00 Matrix: QC | | | | | | | |
| Dissolved Metals | | | | | | | |
| Strontium (Sr)-Dissolved | 0.0341 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 0.4 | <DL | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00152 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.0000400 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00038 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0038 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000216 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.8 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 131 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| L2678895-5 SW10_SW_20220111 Sampled By: Client on 11-JAN-22 @ 09:15 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 19.13 | | 0 | mg/L | | 21-JAN-22 | R5703517 |
| pH, Client Supplied | 7.78 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | 1.65 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 127 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 281 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 149 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 7.37 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 5.5 | | 3.0 | mg/L | | 17-JAN-22 | R5698837 |
| Total Dissolved Solids | 224 | | 20 | mg/L | | 17-JAN-22 | R5699359 |
| Turbidity | 7.22 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 4.8 | | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 129 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.050 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-JAN-22 | |
| Chloride (Cl) | 7.56 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.053 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | 0.068 | <T | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 1.29 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | 0.0129 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-5 SW10_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 09:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Sulfate (SO4) | 7.25 | | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 36.7 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 38.1 | DLM | 2.5 | mg/L | | 20-JAN-22 | R5703196 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.269 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000070 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00091 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.0169 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000187 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0140 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000023 | <T | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 35.6 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000310 | | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00078 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000300 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00130 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 0.774 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00020 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0060 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 15.0 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.0658 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000285 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00160 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.040 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 1.65 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00186 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000135 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 6.85 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 5.51 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.0954 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | 3.0 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-5 SW10_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 09:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.00871 | | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.000598 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00120 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0165 | | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000532 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0360 | | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000050 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.000865 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.0157 | | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000014 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0145 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000135 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 34.5 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00025 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000212 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00076 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.463 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0056 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 15.1 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.0596 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000232 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00134 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.035 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 1.55 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00123 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | 0.000200 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 6.42 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 5.55 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | 0.0915 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 2.8 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|----------|-----------|-----------|----------|
| L2678895-5 SW10_SW_20220111 Sampled By: Client on 11-JAN-22 @ 09:15 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thorium (Th)-Dissolved | 0.00007 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00252 | | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.000573 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00062 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0032 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000494 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.4 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 87 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| L2678895-6 SW15_SW_20220111 Sampled By: Client on 11-JAN-22 @ 10:55 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | <.1 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | 6.98 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 207 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 308 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 165 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 7.23 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 6.5 | | 3.0 | mg/L | | 17-JAN-22 | R5698837 |
| Total Dissolved Solids | 276 | | 20 | mg/L | | 17-JAN-22 | R5699359 |
| Turbidity | 15.3 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 8.2 | | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 143 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.082 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-JAN-22 | |
| Chloride (Cl) | 5.55 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.049 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | 0.116 | <T | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | 0.003 | <DL | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 1.58 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | 0.0207 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 11.9 | | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-6 SW15_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 10:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 47.0 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 47.0 | DLM | 2.5 | mg/L | | 20-JAN-22 | R5703196 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.443 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000105 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00133 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.0202 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000303 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0120 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000030 | <T | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 40.1 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000580 | | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00120 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000535 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00194 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 1.28 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00035 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0066 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 17.9 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.139 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000275 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00238 | <T | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.050 | | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 1.87 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00240 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000170 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 8.14 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 5.09 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.0891 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | 4.8 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00012 | | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | 0.00009 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.0150 | | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.000828 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-6 SW15_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 10:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Vanadium (V)-Total | 0.00185 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0055 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000854 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0770 | | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000100 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.00121 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.0176 | | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000014 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0135 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000195 | <T | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 38.2 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00035 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000330 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00160 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.777 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | 0.00015 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0060 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 16.9 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.128 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000264 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00180 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.040 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 1.72 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00153 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | 0.000210 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 7.28 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 4.92 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | 0.0849 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 4.4 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | 0.00010 | | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | 0.000045 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00536 | | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|--------|----------|-----------|-----------|----------|
| L2678895-6 SW15_SW_20220111 Sampled By: Client on 11-JAN-22 @ 10:55 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Uranium (U)-Dissolved | 0.000782 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00084 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0034 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000670 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.1 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 116 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| L2678895-7 SW16_SW_20220111 Sampled By: Client on 11-JAN-22 @ 09:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.54 | | 0 | mg/L | | 21-JAN-22 | R5703517 |
| pH, Client Supplied | 7.62 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | <0 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 21.9 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 70.0 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 27.0 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 7.20 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 17-JAN-22 | R5698837 |
| Total Dissolved Solids | 56 | | 13 | mg/L | | 17-JAN-22 | R5699359 |
| Turbidity | 2.03 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.4 | <DL | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 25.6 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.018 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-JAN-22 | |
| Chloride (Cl) | 2.29 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.036 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | 0.050 | <T | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 0.438 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | 0.0053 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 3.30 | <T | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0001 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 11.3 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 10.7 | DLM | 2.5 | mg/L | | 20-JAN-22 | R5703196 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-7 SW16_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 09:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0524 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00040 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.00790 | <DL | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000021 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0045 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000003 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 7.34 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000075 | <DL | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00042 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000045 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00090 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 0.0860 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00004 | <DL | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0008 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 2.42 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.0060 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000110 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00056 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 0.77 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00168 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000115 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 1.69 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 2.86 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.0235 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | 1.2 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.00161 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.0000620 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00035 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0005 | <DL | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000112 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-7 SW16_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 09:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0110 | <T | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000035 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.000359 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.00738 | <DL | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0045 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000010 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 7.03 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000014 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00074 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.0285 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0008 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 2.30 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.00146 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000116 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00042 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 0.81 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00156 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | 0.000090 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 1.63 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 2.90 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | 0.0217 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 1.2 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00028 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.0000530 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00022 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0006 | <DL | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000076 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|---------|----------|-----------|-----------|----------|
| L2678895-7 SW16_SW_20220111 Sampled By: Client on 11-JAN-22 @ 09:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 24 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| L2678895-8 SW17_SW_20220111 Sampled By: Client on 11-JAN-22 @ 10:25 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 9.76 | | 0 | mg/L | | 21-JAN-22 | R5703517 |
| pH, Client Supplied | 7.26 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | <0 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 31.9 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 89.6 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 36.0 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 7.13 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 17-JAN-22 | R5698837 |
| Total Dissolved Solids | 70 | | 13 | mg/L | | 17-JAN-22 | R5699359 |
| Turbidity | 2.91 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.4 | <DL | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 31.0 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.034 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-JAN-22 | |
| Chloride (Cl) | 2.70 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.040 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | 0.614 | | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | 0.003 | <DL | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 0.587 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | 0.0071 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 5.00 | | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0003 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 12.0 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 11.2 | DLM | 2.5 | mg/L | | 20-JAN-22 | R5703196 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0940 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00042 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-8 SW17_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 10:25 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Barium (Ba)-Total | 0.0107 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000042 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0045 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000004 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 9.80 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000130 | | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00030 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000075 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00096 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 0.174 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00006 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0010 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 3.35 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.0122 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000155 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00064 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.020 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 1.00 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00175 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000085 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 2.25 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | 0.000021 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 3.67 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.0283 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | 1.6 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.00313 | | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.0000845 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00045 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0020 | <DL | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000154 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0226 | <T | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-8 SW17_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 10:25 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Arsenic (As)-Dissolved | 0.000409 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.00986 | <DL | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0050 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000020 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 9.25 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00017 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000024 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00078 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.0725 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0010 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 3.13 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.00560 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000132 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00052 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 0.94 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00173 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | 0.000090 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 2.17 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 3.73 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | 0.0276 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 1.8 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00086 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.0000715 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00026 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0012 | <DL | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000126 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 32 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|----------|-----------|-----------|----------|
| L2678895-8 SW17_SW_20220111 Sampled By: Client on 11-JAN-22 @ 10:25 Matrix: SW | | | | | | | |
| Aggregate Organics | | | | | | | |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| L2678895-9 SW20_SW_20220111 Sampled By: Client on 11-JAN-22 @ 09:50 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 13.64 | | 0 | mg/L | | 21-JAN-22 | R5703517 |
| pH, Client Supplied | 6.66 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | .58 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 87.6 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 230 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 120 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 7.36 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 17-JAN-22 | R5698837 |
| Total Dissolved Solids | 180 | | 20 | mg/L | | 17-JAN-22 | R5699359 |
| Turbidity | 4.08 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 4.4 | | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 110 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.036 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-JAN-22 | |
| Chloride (Cl) | 4.14 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.042 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | 0.042 | <T | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 1.06 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | 0.0038 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 4.65 | <T | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 27.2 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 29.4 | DLM | 2.5 | mg/L | | 20-JAN-22 | R5703196 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.176 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00064 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.0136 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000127 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-9 SW20_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 09:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Boron (B)-Total | 0.0095 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000013 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 28.9 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000205 | | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00070 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000190 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00078 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 0.491 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00015 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0044 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 12.4 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.0332 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000145 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00102 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.025 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 1.41 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00137 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000135 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 5.64 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 3.71 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.0665 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | 2.0 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.000030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.00641 | | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | 0.00004 | <DL | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.000279 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00080 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0055 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000336 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0240 | <T | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.000584 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.0125 | | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-9 SW20_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 09:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0105 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000060 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 27.9 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00015 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000116 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00046 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.293 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0042 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 12.3 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.0269 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000142 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00080 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 1.36 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00106 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | 0.000110 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 5.37 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 3.65 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | 0.0625 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 2.0 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00142 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.000256 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00044 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0034 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000270 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 75 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0065 | | 0.0065 | Bq/L | 01-FEB-22 | 09-FEB-22 | R5715517 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2678895-10 SW21A_SW_20220111 | | | | | | | |
| Sampled By: Client on 12-JAN-22 @ 15:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | <.1 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | 6.88 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 150 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 393 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 196 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 7.17 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 6.0 | | 3.0 | mg/L | | 17-JAN-22 | R5698837 |
| Total Dissolved Solids | 308 | | 20 | mg/L | | 17-JAN-22 | R5699359 |
| Turbidity | 5.19 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 11.8 | | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 176 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.040 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-JAN-22 | |
| Chloride (Cl) | 14.2 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.061 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 1.45 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | 0.0630 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 12.2 | | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0009 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 39.9 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 39.3 | DLM | 2.5 | mg/L | | 20-JAN-22 | R5703196 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.135 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000065 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00115 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.0222 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000180 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0130 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000013 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 47.8 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000105 | | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00056 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.00108 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-10 SW21A_SW_20220111 | | | | | | | |
| Sampled By: Client on 12-JAN-22 @ 15:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Copper (Cu)-Total | 0.00054 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 1.41 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00011 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0066 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 20.1 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.633 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000175 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00198 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.120 | | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 1.94 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00178 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000200 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 7.77 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 7.95 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.123 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | 5.0 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.00501 | | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.000467 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00090 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0020 | <DL | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000482 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0268 | <T | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000065 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.00111 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.0211 | | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0140 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000085 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 46.4 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00029 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|----------|-----------|-----------|----------|
| L2678895-10 SW21A_SW_20220111 Sampled By: Client on 12-JAN-22 @ 15:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Cobalt (Co)-Dissolved | 0.000988 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00040 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 1.12 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0060 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 19.6 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.611 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000158 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00178 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.090 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 1.90 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00149 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | 0.000200 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 7.73 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 7.93 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | 0.119 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 4.8 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00140 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.000469 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00060 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0020 | <DL | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000482 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 97 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| L2678895-11 SW22A_SW_20220111 Sampled By: Client on 11-JAN-22 @ 12:50 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 16.16 | | 0 | mg/L | | 21-JAN-22 | R5703517 |
| pH, Client Supplied | 6.33 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | .02 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 148 | | 2.0 | CU | | 14-JAN-22 | R5696477 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-11 SW22A_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 12:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Conductivity (EC) | 394 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 196 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 7.29 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 4.0 | | 3.0 | mg/L | | 14-JAN-22 | R5696890 |
| Total Dissolved Solids | 324 | | 20 | mg/L | | 14-JAN-22 | R5696891 |
| Turbidity | 4.33 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 10.2 | | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 176 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.036 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-JAN-22 | |
| Chloride (Cl) | 14.3 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.063 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | 0.010 | <DL | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 1.46 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | 0.0570 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 13.6 | | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | 0.0002 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 40.7 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 40.7 | DLM | 2.5 | mg/L | | 20-JAN-22 | R5703196 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.128 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000080 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00117 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.0207 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000158 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0130 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000022 | <T | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 49.2 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000160 | | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00070 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000920 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00094 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 1.26 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00017 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0068 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-11 SW22A_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 12:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Magnesium (Mg)-Total | 20.6 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.577 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000210 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00200 | <T | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.100 | | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 1.99 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00161 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000235 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 7.70 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 7.92 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.123 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | 5.4 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.00483 | | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.000612 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00085 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0090 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000556 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0252 | <T | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000070 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.00115 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.0203 | | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0145 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000105 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 45.9 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00028 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000850 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00056 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 1.02 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | 0.00006 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|----------|-----------|-----------|----------|
| L2678895-11 SW22A_SW_20220111 Sampled By: Client on 11-JAN-22 @ 12:50 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lithium (Li)-Dissolved | 0.0064 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 19.8 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.571 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000208 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00172 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.085 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 1.94 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00147 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | 0.000245 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 7.47 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 7.87 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | 0.117 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 5.2 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | 0.00005 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00140 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.000606 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00060 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0050 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000486 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 102 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0060 | | 0.0060 | Bq/L | 01-FEB-22 | 09-FEB-22 | R5715517 |
| L2678895-12 SW23_SW_20220111 Sampled By: Client on 11-JAN-22 @ 11:35 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | <.1 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | 6.82 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 149 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 367 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 194 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 7.28 | | 0.10 | pH | | 14-JAN-22 | R5696736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-12 SW23_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 11:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Total Suspended Solids | 9.0 | | 3.0 | mg/L | | 14-JAN-22 | R5696890 |
| Total Dissolved Solids | 298 | | 20 | mg/L | | 14-JAN-22 | R5696891 |
| Turbidity | 16.4 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 9.4 | | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 170 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.050 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-JAN-22 | |
| Chloride (Cl) | 9.32 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.059 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | 0.036 | <T | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 1.46 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | 0.0320 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 11.9 | | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | 0.0004 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 41.4 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 40.6 | DLM | 2.5 | mg/L | | 20-JAN-22 | R5703196 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.448 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000080 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00128 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.0196 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000295 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0125 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000024 | <T | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 46.4 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000590 | | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00114 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000735 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00158 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 1.45 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00032 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0064 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 19.9 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.323 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-12 SW23_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 11:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Molybdenum (Mo)-Total | 0.000250 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00262 | <T | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.085 | | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 1.87 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00244 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000175 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 8.55 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 5.99 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.108 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | 4.6 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00013 | | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.0176 | | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.000719 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00180 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0045 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000836 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0360 | | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000080 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.00117 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.0169 | | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000014 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0130 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000125 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 46.0 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00031 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000508 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00114 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.855 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | 0.00013 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0058 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 19.2 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.300 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|----------|-----------|-----------|----------|
| L2678895-12 SW23_SW_20220111 Sampled By: Client on 11-JAN-22 @ 11:35 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000268 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00194 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.060 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 1.74 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00146 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | 0.000210 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 7.50 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 5.95 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | 0.105 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 4.8 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | 0.00006 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00288 | | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.000714 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00074 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0026 | <DL | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000608 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.0 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 99 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0054 | | 0.0054 | Bq/L | 01-FEB-22 | 09-FEB-22 | R5715517 |
| L2678895-13 SW24_SW_20220111 Sampled By: Client on 11-JAN-22 @ 11:50 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | <.1 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | <0 | | 0 | Degree C | | 28-JAN-22 | R5711479 |
| Temperature, Client Supplied | 6.71 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 150 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 367 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 191 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 7.28 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 9.5 | | 3.0 | mg/L | | 14-JAN-22 | R5696890 |
| Total Dissolved Solids | 280 | | 20 | mg/L | | 14-JAN-22 | R5696891 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-13 SW24_SW_20220111 Sampled By: Client on 11-JAN-22 @ 11:50 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Turbidity | 14.4 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 9.6 | | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 171 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.046 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 28-JAN-22 | |
| Chloride (Cl) | 9.58 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.059 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | 0.044 | <T | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 1.57 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | 0.0311 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 11.7 | | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 41.1 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 42.4 | DLM | 2.5 | mg/L | | 20-JAN-22 | R5703196 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.322 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000090 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00130 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.0189 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000305 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0125 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000020 | <T | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 47.8 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000420 | | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00120 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000680 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00190 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 1.33 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00029 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0062 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 19.7 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.315 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000270 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00246 | <T | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-13 SW24_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 11:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Phosphorus (P)-Total | 0.070 | | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 1.87 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00206 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000175 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 8.13 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 5.97 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.110 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | 4.8 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00011 | | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.0126 | | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.000734 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00150 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0050 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000744 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0374 | | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000085 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.00114 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.0172 | | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000016 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0135 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000165 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 45.3 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00031 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000516 | <T | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00110 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.856 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | 0.00012 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0058 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 19.0 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.301 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000242 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|----------|-----------|-----------|----------|
| L2678895-13 SW24_SW_20220111 Sampled By: Client on 11-JAN-22 @ 11:50 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Nickel (Ni)-Dissolved | 0.00200 | <T | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.050 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 1.72 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00150 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | 0.000145 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 7.51 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 5.84 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | 0.102 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 4.4 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | 0.00007 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | 0.000030 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00288 | | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.000685 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00072 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0034 | <T | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000570 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.1 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 101 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | 1.4 | | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0065 | | 0.0065 | Bq/L | 01-FEB-22 | 09-FEB-22 | R5715517 |
| L2678895-14 SW25_SW_20220111 Sampled By: Client on 12-JAN-22 @ 14:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 14.9 | | 0 | mg/L | | 21-JAN-22 | R5703517 |
| pH, Client Supplied | 7.12 | | 0.10 | pH | | 28-JAN-22 | R5711479 |
| pH, Client Supplied | 7.12 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | .94 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 137 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 290 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 150 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 7.65 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 13.0 | | 3.0 | mg/L | | 17-JAN-22 | R5698811 |
| Total Dissolved Solids | 222 | | 20 | mg/L | | 17-JAN-22 | R5698940 |
| Turbidity | 9.63 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-14 SW25_SW_20220111 | | | | | | | |
| Sampled By: Client on 12-JAN-22 @ 14:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.4 | | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 129 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.064 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 28-JAN-22 | |
| Chloride (Cl) | 10.7 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.058 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | 0.072 | <T | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | 0.003 | <DL | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 1.44 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | 0.0047 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 7.45 | | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | 0.0004 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 37.4 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 31.6 | DLM | 2.5 | mg/L | | 21-JAN-22 | R5704920 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.231 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000085 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00095 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.0191 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000115 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0100 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000015 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 39.4 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000325 | | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00074 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000275 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00192 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 0.618 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00062 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0038 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 14.2 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.0780 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000465 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00180 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-14 SW25_SW_20220111 | | | | | | | |
| Sampled By: Client on 12-JAN-22 @ 14:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Potassium (K)-Total | 1.74 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00179 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000160 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 5.78 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | 0.000014 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 4.04 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.0785 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | 2.8 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.00788 | | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | 0.00002 | <DL | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.00100 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00105 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0135 | | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000394 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0290 | <T | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000075 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.000837 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.0172 | | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0100 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000105 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 37.7 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000132 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00158 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.350 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0034 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 13.5 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.0417 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000452 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00114 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2678895-14 SW25_SW_20220111 Sampled By: Client on 12-JAN-22 @ 14:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 1.68 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00139 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | 0.000165 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 5.25 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 4.14 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | 0.0749 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 2.8 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00166 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.000950 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00052 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0116 | | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000310 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 81 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| L2678895-15 SW26_SW_20220111 Sampled By: Client on 11-JAN-22 @ 15:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 20.66 | | 0 | mg/L | | 21-JAN-22 | R5703517 |
| pH, Client Supplied | 6.98 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | 1.02 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | 1.02 | | 0 | Degree C | | 28-JAN-22 | R5711479 |
| Physical Tests | | | | | | | |
| Color, True | 134 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 359 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 186 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 7.72 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 2.0 | <DL | 3.0 | mg/L | | 14-JAN-22 | R5696890 |
| Total Dissolved Solids | 306 | | 20 | mg/L | | 14-JAN-22 | R5696891 |
| Turbidity | 6.56 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.4 | | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 159 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-15 SW26_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 15:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Ammonia, Total (as N) | 0.078 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 28-JAN-22 | |
| Chloride (Cl) | 12.7 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.071 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | 0.104 | <T | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | 0.004 | <DL | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 1.20 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | 0.0057 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 12.5 | | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | 0.0002 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 36.1 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 33.3 | DLM | 2.5 | mg/L | | 21-JAN-22 | R5704920 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.206 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000095 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00140 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.0259 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000199 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0140 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000012 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 45.9 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000280 | | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00068 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000215 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00222 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 0.553 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00014 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0062 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 18.6 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.0472 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000645 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00160 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 1.97 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00163 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000150 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-15 SW26_SW_20220111 | | | | | | | |
| Sampled By: Client on 11-JAN-22 @ 15:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Silicon (Si)-Total | 5.98 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 5.07 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.107 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | 4.8 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.00745 | | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.00160 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00105 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0325 | | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000458 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0298 | <T | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000085 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.00129 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.0257 | | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0145 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 45.4 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00021 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000134 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00184 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.359 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0058 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 17.7 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.0427 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000644 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00132 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 1.90 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00137 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|----------|-----------|-----------|----------|
| L2678895-15 SW26_SW_20220111 Sampled By: Client on 11-JAN-22 @ 15:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Selenium (Se)-Dissolved | 0.000235 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 5.74 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 5.18 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | 0.104 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 4.4 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | 0.00005 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | 0.000050 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00260 | | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.00150 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00064 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0292 | | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000360 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 84 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| L2678895-16 SW27_SW_20220111 Sampled By: Client on 12-JAN-22 @ 15:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 6.5 | | 0 | mg/L | | 21-JAN-22 | R5703517 |
| pH, Client Supplied | 7.11 | | 0.10 | pH | | 21-JAN-22 | R5703517 |
| Temperature, Client Supplied | <0 | | 0 | Degree C | | 21-JAN-22 | R5703517 |
| Physical Tests | | | | | | | |
| Color, True | 128 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 385 | | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | 197 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 7.75 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | 6.0 | | 3.0 | mg/L | | 17-JAN-22 | R5698811 |
| Total Dissolved Solids | 284 | | 20 | mg/L | | 17-JAN-22 | R5698940 |
| Turbidity | 7.22 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.6 | | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 172 | | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.084 | <T | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-JAN-22 | |
| Chloride (Cl) | 12.9 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | 0.074 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2678895-16 SW27_SW_20220111 | | | | | | | |
| Sampled By: Client on 12-JAN-22 @ 15:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Nitrate (as N) | 0.112 | <T | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | 0.004 | <DL | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | 1.12 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | 0.0059 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 15.2 | | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 35.7 | DLM | 2.5 | mg/L | 20-JAN-22 | 20-JAN-22 | R5703198 |
| Total Organic Carbon | 33.8 | DLM | 2.5 | mg/L | | 21-JAN-22 | R5704920 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.207 | | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | 0.000095 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | 0.00121 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | 0.0250 | | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | 0.0000146 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | 0.0145 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | 0.000015 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | 49.7 | | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | 0.0000250 | | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00058 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | 0.000195 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | 0.00216 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | 0.518 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | 0.00015 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | 0.0064 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | 19.9 | | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | 0.0626 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699159 |
| Molybdenum (Mo)-Total | 0.000685 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | 0.00162 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.025 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | 2.01 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | 0.00159 | | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | 0.000180 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 6.29 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | 5.56 | | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | 0.115 | | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-16 SW27_SW_20220111 | | | | | | | |
| Sampled By: Client on 12-JAN-22 @ 15:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Sulfur (S)-Total | 5.8 | | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | 0.00720 | | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | 0.00178 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Vanadium (V)-Total | 0.00115 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | 0.0185 | | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | 0.000466 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0260 | <T | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | 0.000090 | <DL | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.00109 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | 0.0239 | | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | 0.0155 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | 0.0000060 | <DL | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | 48.0 | | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00019 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | 0.000124 | <DL | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00178 | <T | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.309 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | 0.0062 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | 18.8 | | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | 0.0510 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698988 |
| Molybdenum (Mo)-Dissolved | 0.000678 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | 0.00128 | <DL | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | 1.95 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | 0.00122 | | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | 0.000190 | <T | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | 5.83 | | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | 5.54 | | 0.10 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|---------|-------|-----------|-----------|----------|
| L2678895-16 SW27_SW_20220111 Sampled By: Client on 12-JAN-22 @ 15:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Strontium (Sr)-Dissolved | 0.109 | | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | 5.4 | | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | 0.00005 | <DL | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | 0.00266 | | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Uranium (U)-Dissolved | 0.00178 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | 0.00068 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0154 | | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | 0.000422 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | 77 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| L2678895-17 TB_SW_20220111 Sampled By: Client on 12-JAN-22 @ 12:00 Matrix: QC | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 14-JAN-22 | R5696477 |
| Conductivity (EC) | 0.4 | <DL | 1.0 | uS/cm | | 14-JAN-22 | R5696736 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 17-JAN-22 | |
| pH | 5.31 | | 0.10 | pH | | 14-JAN-22 | R5696736 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 17-JAN-22 | R5698811 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 17-JAN-22 | R5698940 |
| Turbidity | <0.10 | | 0.10 | NTU | | 14-JAN-22 | R5695657 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-JAN-22 | R5697443 |
| Alkalinity, Total (as CaCO3) | 0.4 | <DL | 2.0 | mg/L | | 14-JAN-22 | R5696736 |
| Ammonia, Total (as N) | 0.004 | <DL | 0.0050 | mg/L | | 21-JAN-22 | R5703919 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 14-JAN-22 | 15-JAN-22 | R5697440 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 15-JAN-22 | R5697440 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JAN-22 | R5697440 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 18-JAN-22 | 20-JAN-22 | R5702302 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 14-JAN-22 | 18-JAN-22 | R5699341 |
| Sulfate (SO4) | 0.15 | <DL | 0.30 | mg/L | | 15-JAN-22 | R5697440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 17-JAN-22 | R5699120 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-17 TB_SW_20220111 | | | | | | | |
| Sampled By: Client on 12-JAN-22 @ 12:00 | | | | | | | |
| Matrix: QC | | | | | | | |
| Cyanides | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 12-JAN-22 | 19-JAN-22 | R5701884 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 21-JAN-22 | R5704920 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0002 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00060 | mg/L | | 14-JAN-22 | R5697683 |
| Arsenic (As)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Barium (Ba)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 14-JAN-22 | R5697683 |
| Calcium (Ca)-Total | <0.002 | <W | 0.20 | mg/L | | 14-JAN-22 | R5697683 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697683 |
| Chromium (Cr)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 14-JAN-22 | R5697683 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Iron (Fe)-Total | <0.0005 | <W | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Lead (Pb)-Total | <0.00001 | <W | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Magnesium (Mg)-Total | <0.0002 | <W | 0.020 | mg/L | | 14-JAN-22 | R5697683 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5699162 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Nickel (Ni)-Total | <0.00002 | <W | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 14-JAN-22 | R5697683 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Rubidium (Rb)-Total | <0.000002 | <W | 0.00020 | mg/L | | 14-JAN-22 | R5697683 |
| Selenium (Se)-Total | <0.000005 | <W | 0.000050 | mg/L | | 14-JAN-22 | R5697683 |
| Silicon (Si)-Total | 0.008 | <DL | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Sodium (Na)-Total | <0.005 | <W | 0.10 | mg/L | | 14-JAN-22 | R5697683 |
| Strontium (Sr)-Total | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 14-JAN-22 | R5697683 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697683 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697683 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Titanium (Ti)-Total | <0.00001 | <W | 0.0020 | mg/L | | 14-JAN-22 | R5697683 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697683 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 14-JAN-22 | R5697683 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2678895-17 TB_SW_20220111 | | | | | | | |
| Sampled By: Client on 12-JAN-22 @ 12:00 | | | | | | | |
| Matrix: QC | | | | | | | |
| Total Metals | | | | | | | |
| Vanadium (V)-Total | 0.00005 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Zinc (Zn)-Total | <0.0005 | <W | 0.0030 | mg/L | | 14-JAN-22 | R5697683 |
| Zirconium (Zr)-Total | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697683 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 14-JAN-22 | R5695976 |
| Aluminum (Al)-Dissolved | 0.0038 | <DL | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 14-JAN-22 | R5697736 |
| Arsenic (As)-Dissolved | 0.0000010 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Barium (Ba)-Dissolved | <0.000005 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Boron (B)-Dissolved | <0.0005 | <W | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 14-JAN-22 | R5697736 |
| Calcium (Ca)-Dissolved | <0.002 | <W | 0.20 | mg/L | | 14-JAN-22 | R5697736 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 14-JAN-22 | R5697736 |
| Chromium (Cr)-Dissolved | 0.00014 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 14-JAN-22 | R5697736 |
| Copper (Cu)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Iron (Fe)-Dissolved | 0.0010 | <DL | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Magnesium (Mg)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 14-JAN-22 | R5697736 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 18-JAN-22 | R5698991 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 14-JAN-22 | R5697736 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 14-JAN-22 | R5697736 |
| Silicon (Si)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 14-JAN-22 | R5697736 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Sodium (Na)-Dissolved | <0.005 | <W | 0.10 | mg/L | | 14-JAN-22 | R5697736 |
| Strontium (Sr)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 14-JAN-22 | R5697736 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 14-JAN-22 | R5697736 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 14-JAN-22 | R5697736 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 14-JAN-22 | R5697736 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 14-JAN-22 | R5697736 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|--------|-------|-----------|-----------|----------|
| L2678895-17 TB_SW_20220111 Sampled By: Client on 12-JAN-22 @ 12:00 Matrix: QC | | | | | | | |
| Dissolved Metals | | | | | | | |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.0050 | mg/L | | 14-JAN-22 | R5697736 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Zinc (Zn)-Dissolved | 0.0002 | <DL | 0.0030 | mg/L | | 14-JAN-22 | R5697736 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 14-JAN-22 | R5697736 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-JAN-22 | R5700856 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 18-JAN-22 | 19-JAN-22 | R5700836 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 20-JAN-22 | 20-JAN-22 | R5701886 |
| | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------|--------------------------|-----------|--|
| Duplicate | Zinc (Zn)-Total | DUP-H,J | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Barium (Ba)-Dissolved | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Dissolved | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Dissolved | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Manganese (Mn)-Dissolved | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Dissolved | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Dissolved | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Aluminum (Al)-Total | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Barium (Ba)-Total | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Total | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Total | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Manganese (Mn)-Total | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Total | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Total | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -16, -17, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Ammonia, Total (as N) | MS-B | L2678895-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Total Organic Carbon | MS-B | L2678895-10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| DLM | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |
| DUP-H,J | Duplicate results outside ALS DQO, due to sample heterogeneity. Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| PEHT | Parameter Exceeded Recommended Holding Time Prior to Analysis |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|----------|---|--|
| ACY-MISA-TB | Effluent | Acidity (as CaCO ₃) | APHA 2310 B-POTENTIOMETRIC TITRATION |
| Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample. | | | |
| ALK-MISA-TB | Effluent | Alkalinity, Total (as CaCO ₃) | APHA 2320 B-Auto-Pot. Titration |
| This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. | | | |
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
| All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation. | | | |
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
| This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis. | | | |

Reference Information

CN-T-MISA-CFA-WT Effluent Total Cyanide by CFA ISO 14403-2:2012 (modified)

This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.

Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

CN-WAD-MISA-CFA-WT Effluent Weak Acid Dissociable Cyanide by CFA APHA 4500-CN CYANIDE (modified)

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

COD-TB Water Chemical Oxygen Demand APHA 5220D

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

COLOUR-TB Water Colour, True APHA 2120 C

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

DO-CLIENT-TB Water Dissolved Oxygen, Client Supplied Result supplied by Client

DOC-WT Effluent Dissolved Organic Carbon for MISA APHA 5310 B-Instrumental

EC-MISA-TB Effluent Conductivity (EC) APHA 2510 B-ELECTRODE

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB Water Fluoride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB Effluent Hardness (as CaCO₃) CALCULATION

HG-DIS-WT Effluent Mercury (Hg)-Dissolved for MISA SW846 7470A

HG-TOT-WT Effluent Mercury (Hg)-Total for MISA SW846 7470A

MET-D-MISA-TB Effluent Dissolved Metals in Water (MISA) APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-MISA-TB Effluent Total Metals in Water (MISA) EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-MISA-F-TB Effluent Ammonia by Discrete Analyzer catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NH3-UNION-CALC-TB Effluent Un-ionized ammonia Calculation

NO2-MISA-IC-TB Effluent Nitrite in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-TB Effluent Nitrate in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

Oil and Grease, Total for MISA APHA 5520 B-Hexane Gravimetric

Reference Information

| | | | |
|--|----------|-------------------------------------|--------------------------------|
| OGG-TOT-WT | Effluent | | |
| PH-CLIENT-TB | Water | pH | Result supplied by Client |
| PH-MISA-TB | Effluent | pH | APHA 4500-H-ELECTRODE |
| This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode | | | |
| PO4-DO-COL-TB | Water | Dissolved Orthophosphate | APHA 4500-P B, F, G (modified) |
| Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection. | | | |
| RA226-MMER-FC | Water | Ra226 by Alpha Scint, MDC=0.01 Bq/L | EPA 903.1 |
| SO4-MISA-IC-TB | Effluent | Sulfate in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| TDS-MISA-TB | Effluent | Total Dissolved Solids | APHA 2540 C (modified) |
| Aqueous matrices are analyzed using gravimetry and evaporation | | | |
| TEMP-CLIENT-TB | Water | Temperature | Result supplied by Client |
| TKN-F-TB | Water | TKN in Water by Fluorescence | catnr 157/158, 062818/99334821 |
| Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection | | | |
| TOC-WT | Water | Total Organic Carbon | APHA 5310B |
| Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector. | | | |
| TSS-MISA-TB | Effluent | Total Suspended Solids | APHA 2540 D (modified) |
| Aqueous matrices are analyzed using gravimetry | | | |
| TURBIDITY-TB | Water | Turbidity | APHA 2130 B-Nephelometer |
| Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle. | | | |

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |
| FC | ALS ENVIRONMENTAL - FORT COLLINS, COLORADO, USA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

Page 1 of 30

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| BOD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5700856 | | | | | | | |
| WG3685083-8 | DUP | L2678895-4 | | | | | | |
| Biochemical Oxygen Demand | | 2.8 | 3.9 | J | mg/L | 1.1 | 4 | 14-JAN-22 |
| WG3685083-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 101.1 | | % | | 85-115 | 14-JAN-22 |
| WG3685083-6 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 105.3 | | % | | 85-115 | 14-JAN-22 |
| WG3685083-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 14-JAN-22 |
| WG3685083-5 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 14-JAN-22 |
| CL-L-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5697440 | | | | | | | |
| WG3685250-3 | DUP | L2678895-1 | | | | | | |
| Chloride (Cl) | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 20 | 15-JAN-22 |
| WG3685250-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 99.5 | | % | | 90-110 | 15-JAN-22 |
| WG3685250-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 15-JAN-22 |
| WG3685250-4 | MS | L2678895-2 | | | | | | |
| Chloride (Cl) | | | 101.7 | | % | | 75-125 | 15-JAN-22 |
| COD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5700836 | | | | | | | |
| WG3685984-3 | DUP | L2678892-1 | | | | | | |
| Chemical Oxygen Demand | | 65 | 66 | | mg/L | 1.5 | 20 | 19-JAN-22 |
| WG3685984-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 104.1 | | % | | 85-115 | 19-JAN-22 |
| WG3685984-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 19-JAN-22 |
| WG3685984-4 | MS | L2678892-2 | | | | | | |
| Chemical Oxygen Demand | | | 103.5 | | % | | 75-125 | 19-JAN-22 |
| COLOUR-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5696477 | | | | | | | |
| WG3685241-3 | DUP | L2678895-16 | | | | | | |
| Color, True | | 128 | 127 | | CU | 0.2 | 20 | 14-JAN-22 |
| WG3685236-2 | LCS | | | | | | | |
| Color, True | | | 101.0 | | % | | 85-115 | 14-JAN-22 |
| WG3685241-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

Page 2 of 30

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| COLOUR-TB | | Water | | | | | | |
| Batch | R5696477 | | | | | | | |
| WG3685241-2 | LCS | | | | | | | |
| Color, True | | | 101.1 | | % | | 85-115 | 14-JAN-22 |
| WG3685236-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 14-JAN-22 |
| WG3685241-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 14-JAN-22 |
| F-IC-N-TB | | Water | | | | | | |
| Batch | R5697440 | | | | | | | |
| WG3685250-3 | DUP | L2678895-1 | | | | | | |
| Fluoride (F) | | 0.032 | 0.030 | | mg/L | 5.4 | 20 | 15-JAN-22 |
| WG3685250-2 | LCS | | | | | | | |
| Fluoride (F) | | | 106.0 | | % | | 90-110 | 15-JAN-22 |
| WG3685250-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 15-JAN-22 |
| WG3685250-4 | MS | L2678895-2 | | | | | | |
| Fluoride (F) | | | 96.5 | | % | | 75-125 | 15-JAN-22 |
| PO4-DO-COL-TB | | Water | | | | | | |
| Batch | R5699341 | | | | | | | |
| WG3685244-3 | DUP | L2678892-1 | | | | | | |
| Orthophosphate-Dissolved (as P) | | <0.0030 | <0.0030 | RPD-NA | mg/L | N/A | 20 | 18-JAN-22 |
| WG3685245-3 | DUP | L2678895-17 | | | | | | |
| Orthophosphate-Dissolved (as P) | | <0.0030 | <0.0030 | RPD-NA | mg/L | N/A | 20 | 18-JAN-22 |
| WG3685244-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 96.2 | | % | | 80-120 | 18-JAN-22 |
| WG3685245-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 95.4 | | % | | 80-120 | 18-JAN-22 |
| WG3685244-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0030 | | mg/L | | 0.003 | 18-JAN-22 |
| WG3685245-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0030 | | mg/L | | 0.003 | 18-JAN-22 |
| WG3685244-4 | MS | L2678892-2 | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 76.0 | | % | | 70-130 | 18-JAN-22 |
| WG3685245-4 | MS | L2678895-17 | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 73.8 | | % | | 70-130 | 18-JAN-22 |
| TKN-F-TB | | Water | | | | | | |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

Page 3 of 30

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| TKN-F-TB | | Water | | | | | | |
| Batch | R5702302 | | | | | | | |
| WG3685971-3 | DUP | L2678891-2 | | | | | | |
| Total Kjeldahl Nitrogen | | 44.4 | 44.1 | | mg/L | 0.5 | 20 | 20-JAN-22 |
| WG3685979-3 | DUP | L2678895-16 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.12 | 1.03 | | mg/L | 8.7 | 20 | 20-JAN-22 |
| WG3685971-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 103.4 | | % | | 75-125 | 20-JAN-22 |
| WG3685979-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 100.9 | | % | | 75-125 | 20-JAN-22 |
| WG3685971-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 20-JAN-22 |
| WG3685979-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 20-JAN-22 |
| WG3685971-4 | MS | L2678892-1 | | | | | | |
| Total Kjeldahl Nitrogen | | | 104.9 | | % | | 70-130 | 20-JAN-22 |
| TOC-WT | | Water | | | | | | |
| Batch | R5701887 | | | | | | | |
| WG3685994-3 | DUP | L2679066-26 | | | | | | |
| Total Organic Carbon | | 1.18 | 1.31 | | mg/L | 10 | 20 | 19-JAN-22 |
| WG3685994-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 100.7 | | % | | 80-120 | 19-JAN-22 |
| WG3685994-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 19-JAN-22 |
| WG3685994-4 | MS | L2679066-26 | | | | | | |
| Total Organic Carbon | | | 103.4 | | % | | 70-130 | 19-JAN-22 |
| Batch | R5703196 | | | | | | | |
| WG3686289-3 | DUP | L2678920-4 | | | | | | |
| Total Organic Carbon | | 20.3 | 20.7 | | mg/L | 2.1 | 20 | 20-JAN-22 |
| WG3686289-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 103.3 | | % | | 80-120 | 20-JAN-22 |
| WG3686289-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 20-JAN-22 |
| WG3686289-4 | MS | L2678920-4 | | | | | | |
| Total Organic Carbon | | | N/A | MS-B | % | | - | 20-JAN-22 |
| Batch | R5704920 | | | | | | | |
| WG3687183-3 | DUP | L2679849-1 | | | | | | |
| Total Organic Carbon | | 2.21 | 2.44 | | mg/L | 9.8 | 20 | 21-JAN-22 |
| WG3687183-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 104.4 | | % | | 80-120 | 21-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|------------------------------|--------------------|--------|-----------|--------|-----|--------|-----------|
| TOC-WT | | Water | | | | | | |
| Batch | R5704920 | | | | | | | |
| WG3687183-1 MB | Total Organic Carbon | | <0.50 | | mg/L | | 0.5 | 21-JAN-22 |
| WG3687183-4 MS | Total Organic Carbon | L2679849-1 | 103.8 | | % | | 70-130 | 21-JAN-22 |
| TURBIDITY-TB | | Water | | | | | | |
| Batch | R5695657 | | | | | | | |
| WG3685145-3 DUP | Turbidity | L2678892-1 | 2.38 | 2.29 | NTU | 3.9 | 15 | 14-JAN-22 |
| WG3685145-6 DUP | Turbidity | L2678895-17 | <0.10 | <0.10 | RPD-NA | N/A | 15 | 14-JAN-22 |
| WG3685145-2 LCS | Turbidity | | 99.0 | | % | | 85-115 | 14-JAN-22 |
| WG3685145-5 LCS | Turbidity | | 99.0 | | % | | 85-115 | 14-JAN-22 |
| WG3685145-1 MB | Turbidity | | <0.10 | | NTU | | 0.1 | 14-JAN-22 |
| WG3685145-4 MB | Turbidity | | <0.10 | | NTU | | 0.1 | 14-JAN-22 |
| ACY-MISA-TB | | Effluent | | | | | | |
| Batch | R5697443 | | | | | | | |
| WG3685233-3 DUP | Acidity (as CaCO3) | L2678895-13 | 9.6 | 9.0 | mg/L | 6.5 | 20 | 15-JAN-22 |
| WG3685231-2 LCS | Acidity (as CaCO3) | | 93.8 | | % | | 85-115 | 15-JAN-22 |
| WG3685233-2 LCS | Acidity (as CaCO3) | | 93.5 | | % | | 85-115 | 15-JAN-22 |
| WG3685231-1 MB | Acidity (as CaCO3) | | 1.8 | | mg/L | | 3 | 15-JAN-22 |
| WG3685233-1 MB | Acidity (as CaCO3) | | 2.2 | | mg/L | | 3 | 15-JAN-22 |
| ALK-MISA-TB | | Effluent | | | | | | |
| Batch | R5696736 | | | | | | | |
| WG3685228-3 DUP | Alkalinity, Total (as CaCO3) | L2678895-7 | 25.6 | 25.4 | mg/L | 0.4 | 20 | 14-JAN-22 |
| | Alkalinity, Phenolphthalein | | <0.2 | <0.2 | RPD-NA | N/A | 25 | 14-JAN-22 |
| WG3685226-2 LCS | Alkalinity, Total (as CaCO3) | | 100.1 | | % | | 85-115 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------------------|--------|------------------------|---------|-----------|-------|-----|--------|-----------|
| ALK-MISA-TB Effluent | | | | | | | | |
| Batch R5696736 | | | | | | | | |
| WG3685228-2 LCS | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 99.6 | | % | | 85-115 | 14-JAN-22 |
| WG3685226-1 MB | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | <0.2 | | mg/L | | 2 | 14-JAN-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 14-JAN-22 |
| WG3685228-1 MB | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 0.4 | | mg/L | | 2 | 14-JAN-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 14-JAN-22 |
| CN-FREE-MISA-CFA-WT Effluent | | | | | | | | |
| Batch R5699120 | | | | | | | | |
| WG3685759-18 DUP | | | | | | | | |
| Cyanide, Free | | WG3685759-17 0.0003 | <0.0001 | RPD-NA | mg/L | N/A | 20 | 17-JAN-22 |
| WG3685759-3 DUP | | | | | | | | |
| Cyanide, Free | | WG3685759-13 0.0007 | 0.0007 | RPD-NA | mg/L | N/A | 20 | 17-JAN-22 |
| WG3685759-16 LCS | | | | | | | | |
| Cyanide, Free | | | 99.8 | | % | | 80-120 | 17-JAN-22 |
| WG3685759-2 LCS | | | | | | | | |
| Cyanide, Free | | | 109.3 | | % | | 80-120 | 17-JAN-22 |
| WG3685759-1 MB | | | | | | | | |
| Cyanide, Free | | | 0.0003 | | mg/L | | 0.002 | 17-JAN-22 |
| WG3685759-15 MB | | | | | | | | |
| Cyanide, Free | | | 0.0002 | | mg/L | | 0.002 | 17-JAN-22 |
| WG3685759-19 MS | | | | | | | | |
| Cyanide, Free | | WG3685759-17 | 90.1 | | % | | 75-125 | 17-JAN-22 |
| WG3685759-4 MS | | | | | | | | |
| Cyanide, Free | | WG3685759-13 | 106.3 | | % | | 75-125 | 17-JAN-22 |
| CN-T-MISA-CFA-WT Effluent | | | | | | | | |
| Batch R5699120 | | | | | | | | |
| WG3685759-18 DUP | | | | | | | | |
| Cyanide, Total | | WG3685759-17 0.0034 | 0.0034 | | mg/L | 0.9 | 20 | 17-JAN-22 |
| WG3685759-3 DUP | | | | | | | | |
| Cyanide, Total | | WG3685759-13 0.0008 | 0.0008 | RPD-NA | mg/L | N/A | 20 | 17-JAN-22 |
| WG3685759-16 LCS | | | | | | | | |
| Cyanide, Total | | | 93.1 | | % | | 80-120 | 17-JAN-22 |
| WG3685759-2 LCS | | | | | | | | |
| Cyanide, Total | | | 95.7 | | % | | 80-120 | 17-JAN-22 |
| WG3685759-1 MB | | | | | | | | |
| | | | | | | | 0.002 | |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|--------------------------|---------------------|---------|-----------|-------|-----|--------|-----------|
| CN-T-MISA-CFA-WT | | Effluent | | | | | | |
| Batch R5699120 | | | | | | | | |
| WG3685759-1 | MB | | | | | | | |
| | Cyanide, Total | | <0.0002 | | mg/L | | 0.002 | 17-JAN-22 |
| WG3685759-15 | MB | | | | | | | |
| | Cyanide, Total | | <0.0002 | | mg/L | | 0.002 | 17-JAN-22 |
| WG3685759-19 | MS | WG3685759-17 | | | | | | |
| | Cyanide, Total | | 90.0 | | % | | 75-125 | 17-JAN-22 |
| WG3685759-4 | MS | WG3685759-13 | | | | | | |
| | Cyanide, Total | | 96.2 | | % | | 75-125 | 17-JAN-22 |
| CN-WAD-MISA-CFA-WT | | Effluent | | | | | | |
| Batch R5699120 | | | | | | | | |
| WG3685759-18 | DUP | WG3685759-17 | | | | | | |
| | Cyanide, Weak Acid Diss | 0.0002 | <0.0001 | RPD-NA | mg/L | N/A | 20 | 17-JAN-22 |
| WG3685759-3 | DUP | WG3685759-13 | | | | | | |
| | Cyanide, Weak Acid Diss | 0.0004 | 0.0004 | RPD-NA | mg/L | N/A | 20 | 17-JAN-22 |
| WG3685759-16 | LCS | | | | | | | |
| | Cyanide, Weak Acid Diss | | 108.0 | | % | | 80-120 | 17-JAN-22 |
| WG3685759-2 | LCS | | | | | | | |
| | Cyanide, Weak Acid Diss | | 107.5 | | % | | 80-120 | 17-JAN-22 |
| WG3685759-1 | MB | | | | | | | |
| | Cyanide, Weak Acid Diss | | <0.0001 | | mg/L | | 0.002 | 17-JAN-22 |
| WG3685759-15 | MB | | | | | | | |
| | Cyanide, Weak Acid Diss | | <0.0001 | | mg/L | | 0.002 | 17-JAN-22 |
| WG3685759-19 | MS | WG3685759-17 | | | | | | |
| | Cyanide, Weak Acid Diss | | 107.1 | | % | | 75-125 | 17-JAN-22 |
| WG3685759-4 | MS | WG3685759-13 | | | | | | |
| | Cyanide, Weak Acid Diss | | 106.2 | | % | | 75-125 | 17-JAN-22 |
| DOC-WT | | Effluent | | | | | | |
| Batch R5701884 | | | | | | | | |
| WG3685467-3 | DUP | WG3685467-5 | | | | | | |
| | Dissolved Organic Carbon | 15.1 | 15.7 | | mg/L | 3.6 | 25 | 19-JAN-22 |
| WG3685467-2 | LCS | | | | | | | |
| | Dissolved Organic Carbon | | 98.1 | | % | | 70-130 | 19-JAN-22 |
| WG3685467-1 | MB | | | | | | | |
| | Dissolved Organic Carbon | | <0.50 | | mg/L | | 0.5 | 19-JAN-22 |
| Batch R5703198 | | | | | | | | |
| WG3686930-3 | DUP | L2678892-1 | | | | | | |
| | Dissolved Organic Carbon | 22.7 | 24.0 | | mg/L | 5.5 | 25 | 20-JAN-22 |
| WG3686930-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L2678895

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed | |
|--------------------------|-----------------|--------------------|-----------|-----------|--------|------|---------|-----------|-----------|
| DOC-WT | | Effluent | | | | | | | |
| Batch | R5703198 | | | | | | | | |
| WG3686930-2 | LCS | | | | | | | | |
| Dissolved Organic Carbon | | | 104.1 | | % | | 70-130 | 20-JAN-22 | |
| WG3686930-1 | MB | | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 20-JAN-22 | |
| EC-MISA-TB | | Effluent | | | | | | | |
| Batch | R5696736 | | | | | | | | |
| WG3685228-3 | DUP | L2678895-7 | | | | | | | |
| Conductivity (EC) | | | 70.0 | | uS/cm | 3.8 | 10 | 14-JAN-22 | |
| WG3685226-2 | LCS | | | | | | | | |
| Conductivity (EC) | | | 100.9 | | % | | 90-110 | 14-JAN-22 | |
| WG3685228-2 | LCS | | | | | | | | |
| Conductivity (EC) | | | 100.0 | | % | | 90-110 | 14-JAN-22 | |
| WG3685226-1 | MB | | | | | | | | |
| Conductivity (EC) | | | 0.4 | | uS/cm | | 2 | 14-JAN-22 | |
| WG3685228-1 | MB | | | | | | | | |
| Conductivity (EC) | | | 0.2 | | uS/cm | | 2 | 14-JAN-22 | |
| HG-DIS-WT | | Effluent | | | | | | | |
| Batch | R5698988 | | | | | | | | |
| WG3685996-3 | DUP | L2678892-1 | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 18-JAN-22 |
| WG3685996-2 | LCS | | | | | | | | |
| Mercury (Hg)-Dissolved | | | 95.9 | | % | | 80-120 | 18-JAN-22 | |
| WG3685996-1 | MB | | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.00003 | 18-JAN-22 | |
| WG3685996-4 | MS | L2678892-2 | | | | | | | |
| Mercury (Hg)-Dissolved | | | 105.5 | | % | | 70-130 | 18-JAN-22 | |
| Batch | R5698991 | | | | | | | | |
| WG3685998-3 | DUP | L2678895-17 | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 18-JAN-22 |
| WG3685998-2 | LCS | | | | | | | | |
| Mercury (Hg)-Dissolved | | | 96.5 | | % | | 80-120 | 18-JAN-22 | |
| WG3685998-1 | MB | | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.00003 | 18-JAN-22 | |
| WG3685998-4 | MS | L2678895-17 | | | | | | | |
| Mercury (Hg)-Dissolved | | | 109.0 | | % | | 70-130 | 18-JAN-22 | |
| HG-TOT-WT | | Effluent | | | | | | | |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|------------|--------------------|------------|-----------|-------|-----|---------|-----------|
| HG-TOT-WT | | Effluent | | | | | | |
| Batch R5699159 | | | | | | | | |
| WG3685999-3 | DUP | L2678892-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 18-JAN-22 |
| WG3685999-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 99.3 | | % | | 80-120 | 18-JAN-22 |
| WG3685999-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.00003 | 18-JAN-22 |
| WG3685999-4 | MS | L2678892-2 | | | | | | |
| Mercury (Hg)-Total | | | 92.6 | | % | | 70-130 | 18-JAN-22 |
| Batch R5699162 | | | | | | | | |
| WG3686000-3 | DUP | L2678895-17 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 18-JAN-22 |
| WG3686000-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 96.6 | | % | | 80-120 | 18-JAN-22 |
| WG3686000-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.00003 | 18-JAN-22 |
| WG3686000-4 | MS | L2678895-17 | | | | | | |
| Mercury (Hg)-Total | | | 97.1 | | % | | 70-130 | 18-JAN-22 |
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch R5697736 | | | | | | | | |
| WG3685216-3 | DUP | L2678895-15 | | | | | | |
| Aluminum (Al)-Dissolved | | 0.0298 | 0.0286 | | mg/L | 4.0 | 20 | 14-JAN-22 |
| Antimony (Sb)-Dissolved | | 0.000085 | 0.000090 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Arsenic (As)-Dissolved | | 0.00129 | 0.00126 | | mg/L | 1.6 | 20 | 14-JAN-22 |
| Barium (Ba)-Dissolved | | 0.0257 | 0.0245 | | mg/L | 4.8 | 20 | 14-JAN-22 |
| Beryllium (Be)-Dissolved | | 0.000008 | 0.000008 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Bismuth (Bi)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Boron (B)-Dissolved | | 0.0145 | 0.0150 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Cadmium (Cd)-Dissolved | | 0.0000050 | 0.0000075 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Calcium (Ca)-Dissolved | | 45.4 | 44.7 | | mg/L | 1.6 | 20 | 14-JAN-22 |
| Cesium (Cs)-Dissolved | | <0.0000005 | <0.0000005 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Chromium (Cr)-Dissolved | | 0.00021 | 0.00021 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Cobalt (Co)-Dissolved | | 0.000134 | 0.000144 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Copper (Cu)-Dissolved | | 0.00184 | 0.00176 | | mg/L | 4.2 | 20 | 14-JAN-22 |
| Iron (Fe)-Dissolved | | 0.359 | 0.343 | | mg/L | 4.5 | 20 | 14-JAN-22 |
| Lead (Pb)-Dissolved | | 0.00004 | 0.00004 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Lithium (Li)-Dissolved | | 0.0058 | 0.0058 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|------------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5697736 | | | | | | | |
| WG3685216-3 | DUP | L2678895-15 | | | | | | |
| Magnesium (Mg)-Dissolved | | 17.7 | 17.6 | | mg/L | 0.5 | 20 | 14-JAN-22 |
| Manganese (Mn)-Dissolved | | 0.0427 | 0.0424 | | mg/L | 0.7 | 20 | 14-JAN-22 |
| Molybdenum (Mo)-Dissolved | | 0.000644 | 0.000626 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Nickel (Ni)-Dissolved | | 0.00132 | 0.00128 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Phosphorus (P)-Dissolved | | 0.020 | 0.020 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Potassium (K)-Dissolved | | 1.90 | 1.89 | | mg/L | 0.5 | 20 | 14-JAN-22 |
| Rubidium (Rb)-Dissolved | | 0.00137 | 0.00138 | | mg/L | 0.4 | 20 | 14-JAN-22 |
| Selenium (Se)-Dissolved | | 0.000235 | 0.000195 | | mg/L | 18 | 20 | 14-JAN-22 |
| Silicon (Si)-Dissolved | | 5.74 | 5.63 | | mg/L | 1.9 | 20 | 14-JAN-22 |
| Silver (Ag)-Dissolved | | <0.0000005 | <0.0000005 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Sodium (Na)-Dissolved | | 5.18 | 5.24 | | mg/L | 1.2 | 20 | 14-JAN-22 |
| Strontium (Sr)-Dissolved | | 0.104 | 0.104 | | mg/L | 0.1 | 20 | 14-JAN-22 |
| Sulfur (S)-Dissolved | | 4.4 | 4.6 | | mg/L | 3.5 | 20 | 14-JAN-22 |
| Tellurium (Te)-Dissolved | | 0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Thallium (Tl)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Thorium (Th)-Dissolved | | 0.00005 | 0.00005 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Tin (Sn)-Dissolved | | 0.000050 | 0.000050 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Titanium (Ti)-Dissolved | | 0.00260 | 0.00228 | | mg/L | 13 | 20 | 14-JAN-22 |
| Tungsten (W)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Uranium (U)-Dissolved | | 0.00150 | 0.00156 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Vanadium (V)-Dissolved | | 0.00064 | 0.00062 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Zinc (Zn)-Dissolved | | 0.0292 | 0.0276 | | mg/L | 5.7 | 20 | 14-JAN-22 |
| Zirconium (Zr)-Dissolved | | 0.000360 | 0.000342 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| WG3685216-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 96.0 | | % | | 80-120 | 14-JAN-22 |
| Antimony (Sb)-Dissolved | | | 102.2 | | % | | 80-120 | 14-JAN-22 |
| Arsenic (As)-Dissolved | | | 102.7 | | % | | 80-120 | 14-JAN-22 |
| Barium (Ba)-Dissolved | | | 95.6 | | % | | 80-120 | 14-JAN-22 |
| Beryllium (Be)-Dissolved | | | 94.9 | | % | | 80-120 | 14-JAN-22 |
| Bismuth (Bi)-Dissolved | | | 99.0 | | % | | 80-120 | 14-JAN-22 |
| Boron (B)-Dissolved | | | 104.8 | | % | | 80-120 | 14-JAN-22 |
| Cadmium (Cd)-Dissolved | | | 98.5 | | % | | 80-120 | 14-JAN-22 |
| Calcium (Ca)-Dissolved | | | 95.5 | | % | | 80-120 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5697736 | | | | | | | |
| WG3685216-2 LCS | | | | | | | | |
| Cesium (Cs)-Dissolved | | | 102.9 | | % | | 80-120 | 14-JAN-22 |
| Chromium (Cr)-Dissolved | | | 100.7 | | % | | 80-120 | 14-JAN-22 |
| Cobalt (Co)-Dissolved | | | 97.7 | | % | | 80-120 | 14-JAN-22 |
| Copper (Cu)-Dissolved | | | 94.0 | | % | | 80-120 | 14-JAN-22 |
| Iron (Fe)-Dissolved | | | 103.9 | | % | | 80-120 | 14-JAN-22 |
| Lead (Pb)-Dissolved | | | 100.7 | | % | | 80-120 | 14-JAN-22 |
| Lithium (Li)-Dissolved | | | 95.8 | | % | | 80-120 | 14-JAN-22 |
| Magnesium (Mg)-Dissolved | | | 103.8 | | % | | 80-120 | 14-JAN-22 |
| Manganese (Mn)-Dissolved | | | 101.2 | | % | | 80-120 | 14-JAN-22 |
| Molybdenum (Mo)-Dissolved | | | 98.8 | | % | | 80-120 | 14-JAN-22 |
| Nickel (Ni)-Dissolved | | | 96.5 | | % | | 80-120 | 14-JAN-22 |
| Phosphorus (P)-Dissolved | | | 106.3 | | % | | 70-130 | 14-JAN-22 |
| Potassium (K)-Dissolved | | | 106.7 | | % | | 80-120 | 14-JAN-22 |
| Rubidium (Rb)-Dissolved | | | 104.4 | | % | | 80-120 | 14-JAN-22 |
| Selenium (Se)-Dissolved | | | 100.2 | | % | | 80-120 | 14-JAN-22 |
| Silicon (Si)-Dissolved | | | 107.5 | | % | | 60-140 | 14-JAN-22 |
| Silver (Ag)-Dissolved | | | 93.9 | | % | | 80-120 | 14-JAN-22 |
| Sodium (Na)-Dissolved | | | 102.5 | | % | | 80-120 | 14-JAN-22 |
| Strontium (Sr)-Dissolved | | | 96.1 | | % | | 80-120 | 14-JAN-22 |
| Sulfur (S)-Dissolved | | | 116.6 | | % | | 80-120 | 14-JAN-22 |
| Tellurium (Te)-Dissolved | | | 102.2 | | % | | 80-120 | 14-JAN-22 |
| Thallium (Tl)-Dissolved | | | 102.6 | | % | | 80-120 | 14-JAN-22 |
| Thorium (Th)-Dissolved | | | 96.9 | | % | | 80-120 | 14-JAN-22 |
| Tin (Sn)-Dissolved | | | 99.3 | | % | | 80-120 | 14-JAN-22 |
| Titanium (Ti)-Dissolved | | | 101.0 | | % | | 80-120 | 14-JAN-22 |
| Tungsten (W)-Dissolved | | | 102.0 | | % | | 80-120 | 14-JAN-22 |
| Uranium (U)-Dissolved | | | 96.1 | | % | | 80-120 | 14-JAN-22 |
| Vanadium (V)-Dissolved | | | 98.1 | | % | | 80-120 | 14-JAN-22 |
| Zinc (Zn)-Dissolved | | | 96.3 | | % | | 80-120 | 14-JAN-22 |
| Zirconium (Zr)-Dissolved | | | 96.5 | | % | | 80-120 | 14-JAN-22 |
| WG3685216-6 LCS | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 100.1 | | % | | 80-120 | 14-JAN-22 |
| Antimony (Sb)-Dissolved | | | 104.3 | | % | | 80-120 | 14-JAN-22 |
| Arsenic (As)-Dissolved | | | 106.1 | | % | | 80-120 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------|--------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | Effluent | | | | | | | |
| Batch | R5697736 | | | | | | | |
| WG3685216-6 | LCS | | | | | | | |
| Barium (Ba)-Dissolved | | | 99.97 | | % | | 80-120 | 14-JAN-22 |
| Beryllium (Be)-Dissolved | | | 101.6 | | % | | 80-120 | 14-JAN-22 |
| Bismuth (Bi)-Dissolved | | | 108.1 | | % | | 80-120 | 14-JAN-22 |
| Boron (B)-Dissolved | | | 109.2 | | % | | 80-120 | 14-JAN-22 |
| Cadmium (Cd)-Dissolved | | | 99.9 | | % | | 80-120 | 14-JAN-22 |
| Calcium (Ca)-Dissolved | | | 100.8 | | % | | 80-120 | 14-JAN-22 |
| Cesium (Cs)-Dissolved | | | 103.9 | | % | | 80-120 | 14-JAN-22 |
| Chromium (Cr)-Dissolved | | | 104.1 | | % | | 80-120 | 14-JAN-22 |
| Cobalt (Co)-Dissolved | | | 101.1 | | % | | 80-120 | 14-JAN-22 |
| Copper (Cu)-Dissolved | | | 99.0 | | % | | 80-120 | 14-JAN-22 |
| Iron (Fe)-Dissolved | | | 105.3 | | % | | 80-120 | 14-JAN-22 |
| Lead (Pb)-Dissolved | | | 104.1 | | % | | 80-120 | 14-JAN-22 |
| Lithium (Li)-Dissolved | | | 101.0 | | % | | 80-120 | 14-JAN-22 |
| Magnesium (Mg)-Dissolved | | | 104.8 | | % | | 80-120 | 14-JAN-22 |
| Manganese (Mn)-Dissolved | | | 103.1 | | % | | 80-120 | 14-JAN-22 |
| Molybdenum (Mo)-Dissolved | | | 101.3 | | % | | 80-120 | 14-JAN-22 |
| Nickel (Ni)-Dissolved | | | 100.4 | | % | | 80-120 | 14-JAN-22 |
| Phosphorus (P)-Dissolved | | | 112.1 | | % | | 70-130 | 14-JAN-22 |
| Potassium (K)-Dissolved | | | 110.8 | | % | | 80-120 | 14-JAN-22 |
| Rubidium (Rb)-Dissolved | | | 106.2 | | % | | 80-120 | 14-JAN-22 |
| Selenium (Se)-Dissolved | | | 100.9 | | % | | 80-120 | 14-JAN-22 |
| Silicon (Si)-Dissolved | | | 101.8 | | % | | 60-140 | 14-JAN-22 |
| Silver (Ag)-Dissolved | | | 95.3 | | % | | 80-120 | 14-JAN-22 |
| Sodium (Na)-Dissolved | | | 106.0 | | % | | 80-120 | 14-JAN-22 |
| Strontium (Sr)-Dissolved | | | 100.9 | | % | | 80-120 | 14-JAN-22 |
| Sulfur (S)-Dissolved | | | 112.3 | | % | | 80-120 | 14-JAN-22 |
| Tellurium (Te)-Dissolved | | | 105.3 | | % | | 80-120 | 14-JAN-22 |
| Thallium (Tl)-Dissolved | | | 104.8 | | % | | 80-120 | 14-JAN-22 |
| Thorium (Th)-Dissolved | | | 101.5 | | % | | 80-120 | 14-JAN-22 |
| Tin (Sn)-Dissolved | | | 100.6 | | % | | 80-120 | 14-JAN-22 |
| Titanium (Ti)-Dissolved | | | 104.5 | | % | | 80-120 | 14-JAN-22 |
| Tungsten (W)-Dissolved | | | 105.1 | | % | | 80-120 | 14-JAN-22 |
| Uranium (U)-Dissolved | | | 99.6 | | % | | 80-120 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5697736 | | | | | | | |
| WG3685216-6 | LCS | | | | | | | |
| Vanadium (V)-Dissolved | | | 101.5 | | % | | 80-120 | 14-JAN-22 |
| Zinc (Zn)-Dissolved | | | 97.0 | | % | | 80-120 | 14-JAN-22 |
| Zirconium (Zr)-Dissolved | | | 97.3 | | % | | 80-120 | 14-JAN-22 |
| WG3685216-1 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | 0.0004 | | mg/L | | 0.005 | 14-JAN-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 14-JAN-22 |
| Arsenic (As)-Dissolved | | | <0.0000002 | | mg/L | | 0.001 | 14-JAN-22 |
| Barium (Ba)-Dissolved | | | <0.000005 | | mg/L | | 0.01 | 14-JAN-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 14-JAN-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 14-JAN-22 |
| Boron (B)-Dissolved | | | <0.0005 | | mg/L | | 0.05 | 14-JAN-22 |
| Cadmium (Cd)-Dissolved | | | 0.0000010 | | mg/L | | 0.000017 | 14-JAN-22 |
| Calcium (Ca)-Dissolved | | | <0.002 | | mg/L | | 0.2 | 14-JAN-22 |
| Cesium (Cs)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 14-JAN-22 |
| Chromium (Cr)-Dissolved | | | 0.00003 | | mg/L | | 0.001 | 14-JAN-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 14-JAN-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 14-JAN-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 14-JAN-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 14-JAN-22 |
| Magnesium (Mg)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 14-JAN-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 14-JAN-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 14-JAN-22 |
| Phosphorus (P)-Dissolved | | | 0.010 | | mg/L | | 0.05 | 14-JAN-22 |
| Potassium (K)-Dissolved | | | 0.01 | | mg/L | | 0.5 | 14-JAN-22 |
| Rubidium (Rb)-Dissolved | | | <0.000002 | | mg/L | | 0.0002 | 14-JAN-22 |
| Selenium (Se)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 14-JAN-22 |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 14-JAN-22 |
| Silver (Ag)-Dissolved | | | <0.0000005 | | mg/L | | 0.0001 | 14-JAN-22 |
| Sodium (Na)-Dissolved | | | <0.005 | | mg/L | | 0.1 | 14-JAN-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 14-JAN-22 |
| Tellurium (Te)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|---------------------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5697736 | | | | | | | |
| WG3685216-1 MB | | | | | | | | |
| | Thallium (Tl)-Dissolved | | <0.000002 | | mg/L | | 0.0003 | 14-JAN-22 |
| | Thorium (Th)-Dissolved | | <0.00001 | | mg/L | | 0.0001 | 14-JAN-22 |
| | Tin (Sn)-Dissolved | | <0.000005 | | mg/L | | 0.001 | 14-JAN-22 |
| | Titanium (Ti)-Dissolved | | <0.00002 | | mg/L | | 0.002 | 14-JAN-22 |
| | Tungsten (W)-Dissolved | | <0.000002 | | mg/L | | 0.01 | 14-JAN-22 |
| | Uranium (U)-Dissolved | | 0.0000010 | | mg/L | | 0.005 | 14-JAN-22 |
| | Vanadium (V)-Dissolved | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| | Zinc (Zn)-Dissolved | | <0.0002 | | mg/L | | 0.003 | 14-JAN-22 |
| | Zirconium (Zr)-Dissolved | | <0.000002 | | mg/L | | 0.001 | 14-JAN-22 |
| WG3685216-5 MB | | | | | | | | |
| | Aluminum (Al)-Dissolved | | 0.0006 | | mg/L | | 0.005 | 14-JAN-22 |
| | Antimony (Sb)-Dissolved | | <0.000005 | | mg/L | | 0.0006 | 14-JAN-22 |
| | Arsenic (As)-Dissolved | | <0.0000002 | | mg/L | | 0.001 | 14-JAN-22 |
| | Barium (Ba)-Dissolved | | <0.000005 | | mg/L | | 0.01 | 14-JAN-22 |
| | Beryllium (Be)-Dissolved | | <0.000002 | | mg/L | | 0.001 | 14-JAN-22 |
| | Bismuth (Bi)-Dissolved | | <0.000002 | | mg/L | | 0.001 | 14-JAN-22 |
| | Boron (B)-Dissolved | | <0.0005 | | mg/L | | 0.05 | 14-JAN-22 |
| | Cadmium (Cd)-Dissolved | | <0.0000005 | | mg/L | | 0.000017 | 14-JAN-22 |
| | Calcium (Ca)-Dissolved | | 0.012 | | mg/L | | 0.2 | 14-JAN-22 |
| | Cesium (Cs)-Dissolved | | <0.0000005 | | mg/L | | 0.00001 | 14-JAN-22 |
| | Chromium (Cr)-Dissolved | | 0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| | Cobalt (Co)-Dissolved | | <0.000002 | | mg/L | | 0.0005 | 14-JAN-22 |
| | Copper (Cu)-Dissolved | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| | Iron (Fe)-Dissolved | | <0.0005 | | mg/L | | 0.02 | 14-JAN-22 |
| | Lead (Pb)-Dissolved | | <0.00001 | | mg/L | | 0.00005 | 14-JAN-22 |
| | Lithium (Li)-Dissolved | | <0.0002 | | mg/L | | 0.05 | 14-JAN-22 |
| | Magnesium (Mg)-Dissolved | | <0.0005 | | mg/L | | 0.02 | 14-JAN-22 |
| | Manganese (Mn)-Dissolved | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| | Molybdenum (Mo)-Dissolved | | <0.000002 | | mg/L | | 0.001 | 14-JAN-22 |
| | Nickel (Ni)-Dissolved | | <0.00002 | | mg/L | | 0.002 | 14-JAN-22 |
| | Phosphorus (P)-Dissolved | | <0.005 | | mg/L | | 0.05 | 14-JAN-22 |
| | Potassium (K)-Dissolved | | <0.01 | | mg/L | | 0.5 | 14-JAN-22 |
| | Rubidium (Rb)-Dissolved | | <0.000002 | | mg/L | | 0.0002 | 14-JAN-22 |
| | Selenium (Se)-Dissolved | | <0.000005 | | mg/L | | 0.00005 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|------------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5697736 | | | | | | | |
| WG3685216-5 MB | | | | | | | | |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 14-JAN-22 |
| Silver (Ag)-Dissolved | | | <0.0000005 | | mg/L | | 0.0001 | 14-JAN-22 |
| Sodium (Na)-Dissolved | | | <0.005 | | mg/L | | 0.1 | 14-JAN-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 14-JAN-22 |
| Tellurium (Te)-Dissolved | | | 0.00001 | | mg/L | | 0.001 | 14-JAN-22 |
| Thallium (Tl)-Dissolved | | | <0.000002 | | mg/L | | 0.0003 | 14-JAN-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 14-JAN-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 14-JAN-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 14-JAN-22 |
| Tungsten (W)-Dissolved | | | <0.000002 | | mg/L | | 0.01 | 14-JAN-22 |
| Uranium (U)-Dissolved | | | 0.0000010 | | mg/L | | 0.005 | 14-JAN-22 |
| Vanadium (V)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.003 | 14-JAN-22 |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 14-JAN-22 |
| WG3685216-4 MS | | L2678895-16 | | | | | | |
| Aluminum (Al)-Dissolved | | | 98.0 | | % | | 70-130 | 14-JAN-22 |
| Antimony (Sb)-Dissolved | | | 102.4 | | % | | 70-130 | 14-JAN-22 |
| Arsenic (As)-Dissolved | | | 105.8 | | % | | 70-130 | 14-JAN-22 |
| Barium (Ba)-Dissolved | | | N/A | MS-B | % | | - | 14-JAN-22 |
| Beryllium (Be)-Dissolved | | | 106.7 | | % | | 70-130 | 14-JAN-22 |
| Bismuth (Bi)-Dissolved | | | 94.2 | | % | | 70-130 | 14-JAN-22 |
| Boron (B)-Dissolved | | | 114.4 | | % | | 70-130 | 14-JAN-22 |
| Cadmium (Cd)-Dissolved | | | 101.3 | | % | | 70-130 | 14-JAN-22 |
| Calcium (Ca)-Dissolved | | | N/A | MS-B | % | | - | 14-JAN-22 |
| Cesium (Cs)-Dissolved | | | 106.6 | | % | | 70-130 | 14-JAN-22 |
| Chromium (Cr)-Dissolved | | | 103.7 | | % | | 70-130 | 14-JAN-22 |
| Cobalt (Co)-Dissolved | | | 99.3 | | % | | 70-130 | 14-JAN-22 |
| Copper (Cu)-Dissolved | | | 98.7 | | % | | 70-130 | 14-JAN-22 |
| Iron (Fe)-Dissolved | | | 100.5 | | % | | 70-130 | 14-JAN-22 |
| Lead (Pb)-Dissolved | | | 97.5 | | % | | 70-130 | 14-JAN-22 |
| Lithium (Li)-Dissolved | | | 106.1 | | % | | 70-130 | 14-JAN-22 |
| Magnesium (Mg)-Dissolved | | | N/A | MS-B | % | | - | 14-JAN-22 |
| Manganese (Mn)-Dissolved | | | N/A | MS-B | % | | - | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|--------------------|-----------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5697736 | | | | | | | |
| WG3685216-4 MS | L2678895-16 | | | | | | | |
| Molybdenum (Mo)-Dissolved | | | 98.6 | | % | | 70-130 | 14-JAN-22 |
| Nickel (Ni)-Dissolved | | | 98.0 | | % | | 70-130 | 14-JAN-22 |
| Phosphorus (P)-Dissolved | | | 109.6 | | % | | 70-130 | 14-JAN-22 |
| Potassium (K)-Dissolved | | | 101.8 | | % | | 70-130 | 14-JAN-22 |
| Rubidium (Rb)-Dissolved | | | 103.9 | | % | | 70-130 | 14-JAN-22 |
| Selenium (Se)-Dissolved | | | 109.0 | | % | | 70-130 | 14-JAN-22 |
| Silicon (Si)-Dissolved | | | 87.0 | | % | | 70-130 | 14-JAN-22 |
| Silver (Ag)-Dissolved | | | 100.2 | | % | | 70-130 | 14-JAN-22 |
| Sodium (Na)-Dissolved | | | N/A | MS-B | % | | - | 14-JAN-22 |
| Strontium (Sr)-Dissolved | | | N/A | MS-B | % | | - | 14-JAN-22 |
| Sulfur (S)-Dissolved | | | 98.4 | | % | | 70-130 | 14-JAN-22 |
| Tellurium (Te)-Dissolved | | | 104.5 | | % | | 70-130 | 14-JAN-22 |
| Thallium (Tl)-Dissolved | | | 97.6 | | % | | 70-130 | 14-JAN-22 |
| Thorium (Th)-Dissolved | | | 99.0 | | % | | 70-130 | 14-JAN-22 |
| Tin (Sn)-Dissolved | | | 99.2 | | % | | 70-130 | 14-JAN-22 |
| Titanium (Ti)-Dissolved | | | 103.4 | | % | | 70-130 | 14-JAN-22 |
| Tungsten (W)-Dissolved | | | 100.2 | | % | | 70-130 | 14-JAN-22 |
| Uranium (U)-Dissolved | | | 97.3 | | % | | 70-130 | 14-JAN-22 |
| Vanadium (V)-Dissolved | | | 100.9 | | % | | 70-130 | 14-JAN-22 |
| Zinc (Zn)-Dissolved | | | 100.2 | | % | | 70-130 | 14-JAN-22 |
| Zirconium (Zr)-Dissolved | | | 97.8 | | % | | 70-130 | 14-JAN-22 |
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5697683 | | | | | | | |
| WG3685144-3 DUP | L2678895-5 | | | | | | | |
| Aluminum (Al)-Total | | 0.269 | 0.296 | | mg/L | 9.6 | 20 | 14-JAN-22 |
| Antimony (Sb)-Total | | 0.000070 | 0.000060 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Arsenic (As)-Total | | 0.000091 | 0.000092 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Barium (Ba)-Total | | 0.0169 | 0.0175 | | mg/L | 3.1 | 20 | 14-JAN-22 |
| Beryllium (Be)-Total | | 0.0000187 | 0.0000187 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Bismuth (Bi)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Boron (B)-Total | | 0.0140 | 0.0135 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Cadmium (Cd)-Total | | 0.000023 | 0.000021 | | mg/L | 10 | 20 | 14-JAN-22 |
| Calcium (Ca)-Total | | 35.6 | 35.5 | | mg/L | 0.2 | 20 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|--------|--------------------|-----------|-----------|-------|--------|-------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch R5697683 | | | | | | | | |
| WG3685144-3 DUP | | L2678895-5 | | | | | | |
| Cesium (Cs)-Total | | 0.0000310 | 0.0000345 | | mg/L | 9.8 | 20 | 14-JAN-22 |
| Chromium (Cr)-Total | | 0.00078 | 0.00082 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Cobalt (Co)-Total | | 0.000300 | 0.000320 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Copper (Cu)-Total | | 0.00130 | 0.00128 | | mg/L | 1.1 | 20 | 14-JAN-22 |
| Iron (Fe)-Total | | 0.774 | 0.800 | | mg/L | 3.2 | 20 | 14-JAN-22 |
| Lead (Pb)-Total | | 0.00020 | 0.00021 | | mg/L | 2.6 | 20 | 14-JAN-22 |
| Lithium (Li)-Total | | 0.0060 | 0.0058 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Magnesium (Mg)-Total | | 15.0 | 15.6 | | mg/L | 3.5 | 20 | 14-JAN-22 |
| Manganese (Mn)-Total | | 0.0658 | 0.0666 | | mg/L | 1.3 | 20 | 14-JAN-22 |
| Molybdenum (Mo)-Total | | 0.000285 | 0.000265 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Nickel (Ni)-Total | | 0.00160 | 0.00162 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Phosphorus (P)-Total | | 0.040 | 0.055 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Potassium (K)-Total | | 1.65 | 1.68 | | mg/L | 2.2 | 20 | 14-JAN-22 |
| Rubidium (Rb)-Total | | 0.00186 | 0.00188 | | mg/L | 0.9 | 20 | 14-JAN-22 |
| Selenium (Se)-Total | | 0.000135 | 0.000160 | | mg/L | 15 | 20 | 14-JAN-22 |
| Silicon (Si)-Total | | 6.85 | 6.83 | | mg/L | 0.3 | 20 | 14-JAN-22 |
| Silver (Ag)-Total | | 0.000002 | 0.000003 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Sodium (Na)-Total | | 5.51 | 5.66 | | mg/L | 2.8 | 20 | 14-JAN-22 |
| Strontium (Sr)-Total | | 0.0954 | 0.0953 | | mg/L | 0.1 | 20 | 14-JAN-22 |
| Sulfur (S)-Total | | 3.0 | 2.8 | | mg/L | 7.1 | 20 | 14-JAN-22 |
| Tellurium (Te)-Total | | 0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Thallium (Tl)-Total | | 0.000005 | 0.000010 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Thorium (Th)-Total | | 0.00006 | 0.00006 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Tin (Sn)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Titanium (Ti)-Total | | 0.00871 | 0.00988 | | mg/L | 13 | 20 | 14-JAN-22 |
| Tungsten (W)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Uranium (U)-Total | | 0.000598 | 0.000613 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Vanadium (V)-Total | | 0.00120 | 0.00125 | | mg/L | 2.8 | 20 | 14-JAN-22 |
| Zinc (Zn)-Total | | 0.0165 | 0.0045 | DUP-H,J | mg/L | 0.0117 | 0.006 | 14-JAN-22 |
| Zirconium (Zr)-Total | | 0.000532 | 0.000528 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| WG3685144-7 DUP | | L2678895-16 | | | | | | |
| Aluminum (Al)-Total | | 0.207 | 0.214 | | mg/L | 3.2 | 20 | 14-JAN-22 |
| Antimony (Sb)-Total | | 0.000095 | 0.000095 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|-----------|-----------|-------|-----|-------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5697683 | | | | | | | |
| WG3685144-7 | DUP | L2678895-16 | | | | | | |
| Arsenic (As)-Total | | 0.00121 | 0.00118 | | mg/L | 2.4 | 20 | 14-JAN-22 |
| Barium (Ba)-Total | | 0.0250 | 0.0253 | | mg/L | 1.1 | 20 | 14-JAN-22 |
| Beryllium (Be)-Total | | 0.0000146 | 0.0000157 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Bismuth (Bi)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Boron (B)-Total | | 0.0145 | 0.0150 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Cadmium (Cd)-Total | | 0.000015 | 0.000016 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Calcium (Ca)-Total | | 49.7 | 49.9 | | mg/L | 0.4 | 20 | 14-JAN-22 |
| Cesium (Cs)-Total | | 0.0000250 | 0.0000235 | | mg/L | 4.4 | 20 | 14-JAN-22 |
| Chromium (Cr)-Total | | 0.00058 | 0.00058 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Cobalt (Co)-Total | | 0.000195 | 0.000205 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Copper (Cu)-Total | | 0.00216 | 0.00212 | | mg/L | 1.5 | 20 | 14-JAN-22 |
| Iron (Fe)-Total | | 0.518 | 0.512 | | mg/L | 1.2 | 20 | 14-JAN-22 |
| Lead (Pb)-Total | | 0.00015 | 0.00015 | | mg/L | 2.8 | 20 | 14-JAN-22 |
| Lithium (Li)-Total | | 0.0064 | 0.0064 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Magnesium (Mg)-Total | | 19.9 | 19.7 | | mg/L | 1.0 | 20 | 14-JAN-22 |
| Manganese (Mn)-Total | | 0.0626 | 0.0616 | | mg/L | 1.5 | 20 | 14-JAN-22 |
| Molybdenum (Mo)-Total | | 0.000685 | 0.000690 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Nickel (Ni)-Total | | 0.00162 | 0.00164 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Phosphorus (P)-Total | | 0.025 | 0.020 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Potassium (K)-Total | | 2.01 | 2.00 | | mg/L | 0.5 | 20 | 14-JAN-22 |
| Rubidium (Rb)-Total | | 0.00159 | 0.00160 | | mg/L | 1.0 | 20 | 14-JAN-22 |
| Selenium (Se)-Total | | 0.000180 | 0.000160 | | mg/L | 13 | 20 | 14-JAN-22 |
| Silicon (Si)-Total | | 6.29 | 6.22 | | mg/L | 1.2 | 20 | 14-JAN-22 |
| Silver (Ag)-Total | | 0.000002 | 0.000001 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Sodium (Na)-Total | | 5.56 | 5.51 | | mg/L | 1.0 | 20 | 14-JAN-22 |
| Strontium (Sr)-Total | | 0.115 | 0.115 | | mg/L | 0.1 | 20 | 14-JAN-22 |
| Sulfur (S)-Total | | 5.8 | 5.8 | | mg/L | 1.3 | 20 | 14-JAN-22 |
| Tellurium (Te)-Total | | 0.00004 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Thallium (Tl)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Thorium (Th)-Total | | 0.00006 | 0.00006 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Tin (Sn)-Total | | 0.00001 | 0.00001 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Titanium (Ti)-Total | | 0.00720 | 0.00739 | | mg/L | 2.5 | 20 | 14-JAN-22 |
| Tungsten (W)-Total | | <0.00001 | <0.00001 | | mg/L | | | 14-JAN-22 |



Environmental

Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|----------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5697683 | | | | | | | |
| WG3685144-7 | DUP | L2678895-16 | | | | | | |
| Tungsten (W)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Uranium (U)-Total | | 0.00178 | 0.00181 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| Vanadium (V)-Total | | 0.00115 | 0.00115 | | mg/L | 1.9 | 20 | 14-JAN-22 |
| Zinc (Zn)-Total | | 0.0185 | 0.0175 | | mg/L | 5.2 | 20 | 14-JAN-22 |
| Zirconium (Zr)-Total | | 0.000466 | 0.000534 | RPD-NA | mg/L | N/A | 20 | 14-JAN-22 |
| WG3685144-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 99.3 | | % | | 80-120 | 14-JAN-22 |
| Antimony (Sb)-Total | | | 110.7 | | % | | 80-120 | 14-JAN-22 |
| Arsenic (As)-Total | | | 104.9 | | % | | 80-120 | 14-JAN-22 |
| Barium (Ba)-Total | | | 98.7 | | % | | 80-120 | 14-JAN-22 |
| Beryllium (Be)-Total | | | 95.2 | | % | | 80-120 | 14-JAN-22 |
| Bismuth (Bi)-Total | | | 102.0 | | % | | 80-120 | 14-JAN-22 |
| Boron (B)-Total | | | 101.0 | | % | | 80-120 | 14-JAN-22 |
| Cadmium (Cd)-Total | | | 101.3 | | % | | 80-120 | 14-JAN-22 |
| Calcium (Ca)-Total | | | 101.6 | | % | | 80-120 | 14-JAN-22 |
| Cesium (Cs)-Total | | | 102.7 | | % | | 80-120 | 14-JAN-22 |
| Chromium (Cr)-Total | | | 102.7 | | % | | 80-120 | 14-JAN-22 |
| Cobalt (Co)-Total | | | 100.2 | | % | | 80-120 | 14-JAN-22 |
| Copper (Cu)-Total | | | 96.6 | | % | | 80-120 | 14-JAN-22 |
| Iron (Fe)-Total | | | 103.3 | | % | | 80-120 | 14-JAN-22 |
| Lead (Pb)-Total | | | 99.98 | | % | | 80-120 | 14-JAN-22 |
| Lithium (Li)-Total | | | 95.4 | | % | | 80-120 | 14-JAN-22 |
| Magnesium (Mg)-Total | | | 104.3 | | % | | 80-120 | 14-JAN-22 |
| Manganese (Mn)-Total | | | 101.6 | | % | | 80-120 | 14-JAN-22 |
| Molybdenum (Mo)-Total | | | 104.1 | | % | | 80-120 | 14-JAN-22 |
| Nickel (Ni)-Total | | | 97.7 | | % | | 80-120 | 14-JAN-22 |
| Phosphorus (P)-Total | | | 107.6 | | % | | 80-120 | 14-JAN-22 |
| Potassium (K)-Total | | | 111.2 | | % | | 80-120 | 14-JAN-22 |
| Rubidium (Rb)-Total | | | 105.8 | | % | | 80-120 | 14-JAN-22 |
| Selenium (Se)-Total | | | 100.3 | | % | | 80-120 | 14-JAN-22 |
| Silicon (Si)-Total | | | 101.7 | | % | | 80-120 | 14-JAN-22 |
| Silver (Ag)-Total | | | 96.6 | | % | | 80-120 | 14-JAN-22 |
| Sodium (Na)-Total | | | 106.2 | | % | | 80-120 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5697683 | | | | | | | |
| WG3685144-2 LCS | | | | | | | | |
| Strontium (Sr)-Total | | | 101.6 | | % | | 80-120 | 14-JAN-22 |
| Sulfur (S)-Total | | | 103.0 | | % | | 80-120 | 14-JAN-22 |
| Tellurium (Te)-Total | | | 109.5 | | % | | 80-120 | 14-JAN-22 |
| Thallium (Tl)-Total | | | 102.5 | | % | | 80-120 | 14-JAN-22 |
| Thorium (Th)-Total | | | 96.0 | | % | | 80-120 | 14-JAN-22 |
| Tin (Sn)-Total | | | 103.3 | | % | | 80-120 | 14-JAN-22 |
| Titanium (Ti)-Total | | | 99.8 | | % | | 80-120 | 14-JAN-22 |
| Tungsten (W)-Total | | | 102.2 | | % | | 80-120 | 14-JAN-22 |
| Uranium (U)-Total | | | 98.5 | | % | | 80-120 | 14-JAN-22 |
| Vanadium (V)-Total | | | 100.9 | | % | | 80-120 | 14-JAN-22 |
| Zinc (Zn)-Total | | | 100.7 | | % | | 80-120 | 14-JAN-22 |
| Zirconium (Zr)-Total | | | 100.5 | | % | | 80-120 | 14-JAN-22 |
| WG3685144-6 LCS | | | | | | | | |
| Aluminum (Al)-Total | | | 98.2 | | % | | 80-120 | 14-JAN-22 |
| Antimony (Sb)-Total | | | 107.4 | | % | | 80-120 | 14-JAN-22 |
| Arsenic (As)-Total | | | 105.0 | | % | | 80-120 | 14-JAN-22 |
| Barium (Ba)-Total | | | 96.6 | | % | | 80-120 | 14-JAN-22 |
| Beryllium (Be)-Total | | | 99.8 | | % | | 80-120 | 14-JAN-22 |
| Bismuth (Bi)-Total | | | 101.0 | | % | | 80-120 | 14-JAN-22 |
| Boron (B)-Total | | | 109.6 | | % | | 80-120 | 14-JAN-22 |
| Cadmium (Cd)-Total | | | 100.2 | | % | | 80-120 | 14-JAN-22 |
| Calcium (Ca)-Total | | | 99.6 | | % | | 80-120 | 14-JAN-22 |
| Cesium (Cs)-Total | | | 103.8 | | % | | 80-120 | 14-JAN-22 |
| Chromium (Cr)-Total | | | 104.0 | | % | | 80-120 | 14-JAN-22 |
| Cobalt (Co)-Total | | | 99.4 | | % | | 80-120 | 14-JAN-22 |
| Copper (Cu)-Total | | | 97.3 | | % | | 80-120 | 14-JAN-22 |
| Iron (Fe)-Total | | | 103.3 | | % | | 80-120 | 14-JAN-22 |
| Lead (Pb)-Total | | | 100.2 | | % | | 80-120 | 14-JAN-22 |
| Lithium (Li)-Total | | | 103.2 | | % | | 80-120 | 14-JAN-22 |
| Magnesium (Mg)-Total | | | 108.0 | | % | | 80-120 | 14-JAN-22 |
| Manganese (Mn)-Total | | | 102.4 | | % | | 80-120 | 14-JAN-22 |
| Molybdenum (Mo)-Total | | | 100.1 | | % | | 80-120 | 14-JAN-22 |
| Nickel (Ni)-Total | | | 99.2 | | % | | 80-120 | 14-JAN-22 |
| Phosphorus (P)-Total | | | 110.0 | | % | | 80-120 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5697683 | | | | | | | |
| WG3685144-6 | LCS | | | | | | | |
| Potassium (K)-Total | | | 110.6 | | % | | 80-120 | 14-JAN-22 |
| Rubidium (Rb)-Total | | | 104.2 | | % | | 80-120 | 14-JAN-22 |
| Selenium (Se)-Total | | | 99.5 | | % | | 80-120 | 14-JAN-22 |
| Silicon (Si)-Total | | | 102.9 | | % | | 80-120 | 14-JAN-22 |
| Silver (Ag)-Total | | | 94.7 | | % | | 80-120 | 14-JAN-22 |
| Sodium (Na)-Total | | | 105.6 | | % | | 80-120 | 14-JAN-22 |
| Strontium (Sr)-Total | | | 99.1 | | % | | 80-120 | 14-JAN-22 |
| Sulfur (S)-Total | | | 105.1 | | % | | 80-120 | 14-JAN-22 |
| Tellurium (Te)-Total | | | 103.7 | | % | | 80-120 | 14-JAN-22 |
| Thallium (Tl)-Total | | | 99.96 | | % | | 80-120 | 14-JAN-22 |
| Thorium (Th)-Total | | | 95.5 | | % | | 80-120 | 14-JAN-22 |
| Tin (Sn)-Total | | | 102.3 | | % | | 80-120 | 14-JAN-22 |
| Titanium (Ti)-Total | | | 105.1 | | % | | 80-120 | 14-JAN-22 |
| Tungsten (W)-Total | | | 102.4 | | % | | 80-120 | 14-JAN-22 |
| Uranium (U)-Total | | | 97.8 | | % | | 80-120 | 14-JAN-22 |
| Vanadium (V)-Total | | | 101.3 | | % | | 80-120 | 14-JAN-22 |
| Zinc (Zn)-Total | | | 98.9 | | % | | 80-120 | 14-JAN-22 |
| Zirconium (Zr)-Total | | | 98.0 | | % | | 80-120 | 14-JAN-22 |
| WG3685144-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | 0.0016 | | mg/L | | 0.005 | 14-JAN-22 |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 14-JAN-22 |
| Arsenic (As)-Total | | | 0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| Barium (Ba)-Total | | | <0.00001 | | mg/L | | 0.01 | 14-JAN-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 14-JAN-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 14-JAN-22 |
| Boron (B)-Total | | | 0.0005 | | mg/L | | 0.05 | 14-JAN-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 14-JAN-22 |
| Calcium (Ca)-Total | | | <0.002 | | mg/L | | 0.2 | 14-JAN-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 14-JAN-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 14-JAN-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| Iron (Fe)-Total | | | 0.0015 | | mg/L | | 0.02 | 14-JAN-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5697683 | | | | | | | |
| WG3685144-1 MB | | | | | | | | |
| Lithium (Li)-Total | | | <0.0002 | | mg/L | | 0.05 | 14-JAN-22 |
| Magnesium (Mg)-Total | | | <0.0002 | | mg/L | | 0.02 | 14-JAN-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 14-JAN-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 14-JAN-22 |
| Nickel (Ni)-Total | | | 0.00002 | | mg/L | | 0.002 | 14-JAN-22 |
| Phosphorus (P)-Total | | | 0.005 | | mg/L | | 0.05 | 14-JAN-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 14-JAN-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 14-JAN-22 |
| Selenium (Se)-Total | | | <0.000005 | | mg/L | | 0.00005 | 14-JAN-22 |
| Silicon (Si)-Total | | | 0.026 | | mg/L | | 0.1 | 14-JAN-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 14-JAN-22 |
| Sodium (Na)-Total | | | <0.005 | | mg/L | | 0.1 | 14-JAN-22 |
| Strontium (Sr)-Total | | | <0.000005 | | mg/L | | 0.001 | 14-JAN-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 14-JAN-22 |
| Tellurium (Te)-Total | | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 14-JAN-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 14-JAN-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 14-JAN-22 |
| Titanium (Ti)-Total | | | 0.00002 | | mg/L | | 0.002 | 14-JAN-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 14-JAN-22 |
| Uranium (U)-Total | | | 0.0000010 | | mg/L | | 0.005 | 14-JAN-22 |
| Vanadium (V)-Total | | | 0.00010 | | mg/L | | 0.001 | 14-JAN-22 |
| Zinc (Zn)-Total | | | <0.0005 | | mg/L | | 0.003 | 14-JAN-22 |
| Zirconium (Zr)-Total | | | <0.000002 | | mg/L | | 0.001 | 14-JAN-22 |
| WG3685144-5 MB | | | | | | | | |
| Aluminum (Al)-Total | | | 0.0010 | | mg/L | | 0.005 | 14-JAN-22 |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 14-JAN-22 |
| Arsenic (As)-Total | | | 0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| Barium (Ba)-Total | | | <0.00001 | | mg/L | | 0.01 | 14-JAN-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 14-JAN-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 14-JAN-22 |
| Boron (B)-Total | | | 0.0005 | | mg/L | | 0.05 | 14-JAN-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 14-JAN-22 |
| Calcium (Ca)-Total | | | <0.002 | | mg/L | | 0.2 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-------------------|------------|-----------|-------|-----|---------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5697683 | | | | | | | |
| WG3685144-5 MB | | | | | | | | |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 14-JAN-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 14-JAN-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| Iron (Fe)-Total | | | <0.0005 | | mg/L | | 0.02 | 14-JAN-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 14-JAN-22 |
| Lithium (Li)-Total | | | <0.0002 | | mg/L | | 0.05 | 14-JAN-22 |
| Magnesium (Mg)-Total | | | <0.0002 | | mg/L | | 0.02 | 14-JAN-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 14-JAN-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 14-JAN-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 14-JAN-22 |
| Phosphorus (P)-Total | | | <0.005 | | mg/L | | 0.05 | 14-JAN-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 14-JAN-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 14-JAN-22 |
| Selenium (Se)-Total | | | <0.000005 | | mg/L | | 0.00005 | 14-JAN-22 |
| Silicon (Si)-Total | | | 0.020 | | mg/L | | 0.1 | 14-JAN-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 14-JAN-22 |
| Sodium (Na)-Total | | | <0.005 | | mg/L | | 0.1 | 14-JAN-22 |
| Strontium (Sr)-Total | | | <0.000005 | | mg/L | | 0.001 | 14-JAN-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 14-JAN-22 |
| Tellurium (Te)-Total | | | <0.00002 | | mg/L | | 0.001 | 14-JAN-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 14-JAN-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 14-JAN-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 14-JAN-22 |
| Titanium (Ti)-Total | | | 0.00002 | | mg/L | | 0.002 | 14-JAN-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 14-JAN-22 |
| Uranium (U)-Total | | | 0.0000010 | | mg/L | | 0.005 | 14-JAN-22 |
| Vanadium (V)-Total | | | 0.00015 | | mg/L | | 0.001 | 14-JAN-22 |
| Zinc (Zn)-Total | | | <0.0005 | | mg/L | | 0.003 | 14-JAN-22 |
| Zirconium (Zr)-Total | | | <0.000002 | | mg/L | | 0.001 | 14-JAN-22 |
| WG3685144-4 MS | | L2678895-6 | | | | | | |
| Aluminum (Al)-Total | | | N/A | MS-B | % | | - | 14-JAN-22 |
| Antimony (Sb)-Total | | | 107.9 | | % | | 70-130 | 14-JAN-22 |
| Arsenic (As)-Total | | | 104.3 | | % | | 70-130 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5697683 | | | | | | | |
| WG3685144-4 MS | | L2678895-6 | | | | | | |
| Barium (Ba)-Total | | | N/A | MS-B | % | | - | 14-JAN-22 |
| Beryllium (Be)-Total | | | 105.7 | | % | | 70-130 | 14-JAN-22 |
| Bismuth (Bi)-Total | | | 99.1 | | % | | 70-130 | 14-JAN-22 |
| Boron (B)-Total | | | 111.6 | | % | | 70-130 | 14-JAN-22 |
| Cadmium (Cd)-Total | | | 103.2 | | % | | 70-130 | 14-JAN-22 |
| Calcium (Ca)-Total | | | N/A | MS-B | % | | - | 14-JAN-22 |
| Cesium (Cs)-Total | | | 109.1 | | % | | 70-130 | 14-JAN-22 |
| Chromium (Cr)-Total | | | 105.7 | | % | | 70-130 | 14-JAN-22 |
| Cobalt (Co)-Total | | | 101.7 | | % | | 70-130 | 14-JAN-22 |
| Copper (Cu)-Total | | | 98.8 | | % | | 70-130 | 14-JAN-22 |
| Iron (Fe)-Total | | | 105.0 | | % | | 70-130 | 14-JAN-22 |
| Lead (Pb)-Total | | | 99.4 | | % | | 70-130 | 14-JAN-22 |
| Lithium (Li)-Total | | | 106.4 | | % | | 70-130 | 14-JAN-22 |
| Magnesium (Mg)-Total | | | N/A | MS-B | % | | - | 14-JAN-22 |
| Manganese (Mn)-Total | | | N/A | MS-B | % | | - | 14-JAN-22 |
| Molybdenum (Mo)-Total | | | 102.8 | | % | | 70-130 | 14-JAN-22 |
| Nickel (Ni)-Total | | | 100.2 | | % | | 70-130 | 14-JAN-22 |
| Phosphorus (P)-Total | | | 111.4 | | % | | 70-130 | 14-JAN-22 |
| Potassium (K)-Total | | | 111.9 | | % | | 70-130 | 14-JAN-22 |
| Rubidium (Rb)-Total | | | 107.3 | | % | | 70-130 | 14-JAN-22 |
| Selenium (Se)-Total | | | 103.0 | | % | | 70-130 | 14-JAN-22 |
| Silicon (Si)-Total | | | 102.4 | | % | | 70-130 | 14-JAN-22 |
| Silver (Ag)-Total | | | 107.2 | | % | | 70-130 | 14-JAN-22 |
| Sodium (Na)-Total | | | N/A | MS-B | % | | - | 14-JAN-22 |
| Strontium (Sr)-Total | | | N/A | MS-B | % | | - | 14-JAN-22 |
| Sulfur (S)-Total | | | 100.5 | | % | | 70-130 | 14-JAN-22 |
| Tellurium (Te)-Total | | | 104.4 | | % | | 70-130 | 14-JAN-22 |
| Thallium (Tl)-Total | | | 98.7 | | % | | 70-130 | 14-JAN-22 |
| Thorium (Th)-Total | | | 100.5 | | % | | 70-130 | 14-JAN-22 |
| Tin (Sn)-Total | | | 103.8 | | % | | 70-130 | 14-JAN-22 |
| Titanium (Ti)-Total | | | 128.4 | | % | | 70-130 | 14-JAN-22 |
| Tungsten (W)-Total | | | 101.9 | | % | | 70-130 | 14-JAN-22 |
| Uranium (U)-Total | | | 99.1 | | % | | 70-130 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5697683 | | | | | | | |
| WG3685144-4 MS | | L2678895-6 | | | | | | |
| Vanadium (V)-Total | | | 104.6 | | % | | 70-130 | 14-JAN-22 |
| Zinc (Zn)-Total | | | 99.8 | | % | | 70-130 | 14-JAN-22 |
| Zirconium (Zr)-Total | | | 105.2 | | % | | 70-130 | 14-JAN-22 |
| WG3685144-8 MS | | L2678895-17 | | | | | | |
| Aluminum (Al)-Total | | | 95.3 | | % | | 70-130 | 14-JAN-22 |
| Antimony (Sb)-Total | | | 101.6 | | % | | 70-130 | 14-JAN-22 |
| Arsenic (As)-Total | | | 101.9 | | % | | 70-130 | 14-JAN-22 |
| Barium (Ba)-Total | | | 96.5 | | % | | 70-130 | 14-JAN-22 |
| Beryllium (Be)-Total | | | 100.5 | | % | | 70-130 | 14-JAN-22 |
| Bismuth (Bi)-Total | | | 101.5 | | % | | 70-130 | 14-JAN-22 |
| Boron (B)-Total | | | 104.5 | | % | | 70-130 | 14-JAN-22 |
| Cadmium (Cd)-Total | | | 102.9 | | % | | 70-130 | 14-JAN-22 |
| Calcium (Ca)-Total | | | 102.0 | | % | | 70-130 | 14-JAN-22 |
| Cesium (Cs)-Total | | | 107.0 | | % | | 70-130 | 14-JAN-22 |
| Chromium (Cr)-Total | | | 104.8 | | % | | 70-130 | 14-JAN-22 |
| Cobalt (Co)-Total | | | 101.6 | | % | | 70-130 | 14-JAN-22 |
| Copper (Cu)-Total | | | 100.9 | | % | | 70-130 | 14-JAN-22 |
| Iron (Fe)-Total | | | 99.1 | | % | | 70-130 | 14-JAN-22 |
| Lead (Pb)-Total | | | 101.2 | | % | | 70-130 | 14-JAN-22 |
| Lithium (Li)-Total | | | 103.5 | | % | | 70-130 | 14-JAN-22 |
| Magnesium (Mg)-Total | | | 103.8 | | % | | 70-130 | 14-JAN-22 |
| Manganese (Mn)-Total | | | 102.9 | | % | | 70-130 | 14-JAN-22 |
| Molybdenum (Mo)-Total | | | 100.5 | | % | | 70-130 | 14-JAN-22 |
| Nickel (Ni)-Total | | | 101.1 | | % | | 70-130 | 14-JAN-22 |
| Phosphorus (P)-Total | | | 104.5 | | % | | 70-130 | 14-JAN-22 |
| Potassium (K)-Total | | | 107.7 | | % | | 70-130 | 14-JAN-22 |
| Rubidium (Rb)-Total | | | 102.3 | | % | | 70-130 | 14-JAN-22 |
| Selenium (Se)-Total | | | 102.1 | | % | | 70-130 | 14-JAN-22 |
| Silicon (Si)-Total | | | 96.2 | | % | | 70-130 | 14-JAN-22 |
| Silver (Ag)-Total | | | 102.6 | | % | | 70-130 | 14-JAN-22 |
| Sodium (Na)-Total | | | 103.6 | | % | | 70-130 | 14-JAN-22 |
| Strontium (Sr)-Total | | | 108.6 | | % | | 70-130 | 14-JAN-22 |
| Sulfur (S)-Total | | | 100.2 | | % | | 70-130 | 14-JAN-22 |
| Tellurium (Te)-Total | | | 102.6 | | % | | 70-130 | 14-JAN-22 |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5697683 | | | | | | | |
| WG3685144-8 MS | | L2678895-17 | | | | | | |
| Thallium (Tl)-Total | | | 100.7 | | % | | 70-130 | 14-JAN-22 |
| Thorium (Th)-Total | | | 99.1 | | % | | 70-130 | 14-JAN-22 |
| Tin (Sn)-Total | | | 100.7 | | % | | 70-130 | 14-JAN-22 |
| Titanium (Ti)-Total | | | 98.9 | | % | | 70-130 | 14-JAN-22 |
| Tungsten (W)-Total | | | 98.0 | | % | | 70-130 | 14-JAN-22 |
| Uranium (U)-Total | | | 97.1 | | % | | 70-130 | 14-JAN-22 |
| Vanadium (V)-Total | | | 101.8 | | % | | 70-130 | 14-JAN-22 |
| Zinc (Zn)-Total | | | 101.8 | | % | | 70-130 | 14-JAN-22 |
| Zirconium (Zr)-Total | | | 102.5 | | % | | 70-130 | 14-JAN-22 |
| NH3-MISA-F-TB | | Effluent | | | | | | |
| Batch | R5703919 | | | | | | | |
| WG3685969-3 DUP | | L2678895-16 | | | | | | |
| Ammonia, Total (as N) | | 0.084 | 0.084 | | mg/L | 1.0 | 20 | 21-JAN-22 |
| WG3685967-2 LCS | | | 96.1 | | % | | 85-115 | 21-JAN-22 |
| WG3685969-2 LCS | | | 95.8 | | % | | 85-115 | 21-JAN-22 |
| WG3685967-1 MB | | | <0.002 | | mg/L | | 0.005 | 21-JAN-22 |
| WG3685969-1 MB | | | <0.002 | | mg/L | | 0.005 | 21-JAN-22 |
| WG3685967-4 MS | | L2678892-1 | N/A | MS-B | % | | - | 21-JAN-22 |
| WG3685969-4 MS | | L2678895-17 | 105.0 | | % | | 75-125 | 21-JAN-22 |
| NO2-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5697440 | | | | | | | |
| WG3685250-3 DUP | | L2678895-1 | | | | | | |
| Nitrite (as N) | | <0.001 | <0.001 | RPD-NA | mg/L | N/A | 20 | 15-JAN-22 |
| WG3685250-2 LCS | | | 101.0 | | % | | 90-110 | 15-JAN-22 |
| WG3685250-1 MB | | | <0.001 | | mg/L | | 0.01 | 15-JAN-22 |
| WG3685250-4 MS | | L2678895-2 | 99.3 | | % | | 75-125 | 15-JAN-22 |
| NO3-MISA-IC-TB | | Effluent | | | | | | |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|------|---------|-----------|
| NO3-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5697440 | | | | | | | |
| WG3685250-3 | DUP | L2678895-1 | | | | | | |
| Nitrate (as N) | | 0.004 | <0.002 | RPD-NA | mg/L | N/A | 20 | 15-JAN-22 |
| WG3685250-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 100.5 | | % | | 90-110 | 15-JAN-22 |
| WG3685250-1 | MB | | | | | | | |
| Nitrate (as N) | | | 0.002 | | mg/L | | 0.02 | 15-JAN-22 |
| WG3685250-4 | MS | L2678895-2 | | | | | | |
| Nitrate (as N) | | | 103.1 | | % | | 75-125 | 15-JAN-22 |
| OGG-TOT-WT | | Effluent | | | | | | |
| Batch | R5701886 | | | | | | | |
| WG3686818-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 88.0 | | % | | 50-150 | 20-JAN-22 |
| WG3686818-1 | MB | | | | | | | |
| Oil and Grease, Total | | | 0.4 | | mg/L | | 1 | 20-JAN-22 |
| PH-MISA-TB | | Effluent | | | | | | |
| Batch | R5696736 | | | | | | | |
| WG3685228-3 | DUP | L2678895-7 | | | | | | |
| pH | | 7.20 | 7.22 | J | pH | 0.02 | 0.2 | 14-JAN-22 |
| WG3685226-2 | LCS | | | | | | | |
| pH | | | 6.91 | | pH | | 6.9-7.1 | 14-JAN-22 |
| WG3685228-2 | LCS | | | | | | | |
| pH | | | 6.93 | | pH | | 6.9-7.1 | 14-JAN-22 |
| SO4-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5697440 | | | | | | | |
| WG3685250-3 | DUP | L2678895-1 | | | | | | |
| Sulfate (SO4) | | 0.15 | 0.10 | RPD-NA | mg/L | N/A | 20 | 15-JAN-22 |
| WG3685250-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 101.1 | | % | | 90-110 | 15-JAN-22 |
| WG3685250-1 | MB | | | | | | | |
| Sulfate (SO4) | | | <0.05 | | mg/L | | 0.3 | 15-JAN-22 |
| WG3685250-4 | MS | L2678895-2 | | | | | | |
| Sulfate (SO4) | | | 102.2 | | % | | 75-125 | 15-JAN-22 |
| TDS-MISA-TB | | Effluent | | | | | | |
| Batch | R5696891 | | | | | | | |
| WG3685206-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 99.4 | | % | | 85-115 | 14-JAN-22 |
| WG3685206-1 | MB | | | | | | | |



Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|------------------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| TDS-MISA-TB | | Effluent | | | | | | |
| Batch | R5696891 | | | | | | | |
| WG3685206-1 MB | Total Dissolved Solids | | <2 | | mg/L | | 10 | 14-JAN-22 |
| Batch | R5698940 | | | | | | | |
| WG3685798-3 DUP | Total Dissolved Solids | L2678895-17 | <2 | RPD-NA | mg/L | N/A | 20 | 17-JAN-22 |
| WG3685798-2 LCS | Total Dissolved Solids | | 97.5 | | % | | 85-115 | 17-JAN-22 |
| WG3685798-1 MB | Total Dissolved Solids | | 4 | | mg/L | | 10 | 17-JAN-22 |
| Batch | R5699359 | | | | | | | |
| WG3685512-2 LCS | Total Dissolved Solids | | 97.4 | | % | | 85-115 | 17-JAN-22 |
| WG3685512-1 MB | Total Dissolved Solids | | <2 | | mg/L | | 10 | 17-JAN-22 |
| TSS-MISA-TB | | Effluent | | | | | | |
| Batch | R5696890 | | | | | | | |
| WG3685201-2 LCS | Total Suspended Solids | | 94.2 | | % | | 85-115 | 14-JAN-22 |
| WG3685201-1 MB | Total Suspended Solids | | 1.5 | | mg/L | | 3 | 14-JAN-22 |
| Batch | R5698811 | | | | | | | |
| WG3685799-3 DUP | Total Suspended Solids | L2678895-17 | <0.5 | RPD-NA | mg/L | N/A | 20 | 17-JAN-22 |
| WG3685799-2 LCS | Total Suspended Solids | | 101.7 | | % | | 85-115 | 17-JAN-22 |
| WG3685799-1 MB | Total Suspended Solids | | <0.5 | | mg/L | | 3 | 17-JAN-22 |
| Batch | R5698837 | | | | | | | |
| WG3685514-8 LCS | Total Suspended Solids | | 107.3 | | % | | 85-115 | 17-JAN-22 |
| WG3685514-7 MB | Total Suspended Solids | | <0.5 | | mg/L | | 3 | 17-JAN-22 |

Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| DUP-H,J | Duplicate results outside ALS DQO, due to sample heterogeneity. Duplicate results and limits are expressed in terms of absolute difference. |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|--------------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Anions and Nutrients | | | | | | | |
| Filtr./Pres. for Carbons Subcontract | | | | | | | |
| | 2 | 11-JAN-22 10:20 | 18-JAN-22 12:00 | 3 | 7 | days | EHTL |
| | 3 | 11-JAN-22 12:40 | 18-JAN-22 12:00 | 3 | 7 | days | EHTL |
| | 4 | 11-JAN-22 12:00 | 18-JAN-22 12:00 | 3 | 7 | days | EHTL |
| | 5 | 11-JAN-22 09:15 | 18-JAN-22 12:00 | 3 | 7 | days | EHTR |
| | 6 | 11-JAN-22 10:55 | 18-JAN-22 12:00 | 3 | 7 | days | EHTL |
| | 7 | 11-JAN-22 09:30 | 18-JAN-22 12:00 | 3 | 7 | days | EHTL |
| | 8 | 11-JAN-22 10:25 | 18-JAN-22 12:00 | 3 | 7 | days | EHTL |
| | 9 | 11-JAN-22 09:50 | 18-JAN-22 12:00 | 3 | 7 | days | EHTL |
| | 10 | 12-JAN-22 15:10 | 18-JAN-22 12:00 | 3 | 6 | days | EHT |
| | 11 | 11-JAN-22 12:50 | 18-JAN-22 12:00 | 3 | 7 | days | EHTL |
| | 12 | 11-JAN-22 11:35 | 18-JAN-22 12:00 | 3 | 7 | days | EHTL |
| | 13 | 11-JAN-22 11:50 | 18-JAN-22 12:00 | 3 | 7 | days | EHTL |
| | 14 | 12-JAN-22 14:00 | 18-JAN-22 12:00 | 3 | 6 | days | EHT |
| | 15 | 11-JAN-22 15:00 | 18-JAN-22 12:00 | 3 | 7 | days | EHTL |
| | 16 | 12-JAN-22 15:30 | 18-JAN-22 12:00 | 3 | 6 | days | EHT |

Organic / Inorganic Carbon

Dissolved Organic Carbon for MISA

| | | | | | | | |
|--|----|-----------------|-----------------|---|---|------|------|
| | 2 | 11-JAN-22 10:20 | 20-JAN-22 00:00 | 3 | 9 | days | EHTL |
| | 3 | 11-JAN-22 12:40 | 20-JAN-22 00:00 | 3 | 8 | days | EHTL |
| | 4 | 11-JAN-22 12:00 | 20-JAN-22 00:00 | 3 | 9 | days | EHTL |
| | 5 | 11-JAN-22 09:15 | 20-JAN-22 00:00 | 3 | 9 | days | EHTR |
| | 6 | 11-JAN-22 10:55 | 20-JAN-22 00:00 | 3 | 9 | days | EHTL |
| | 7 | 11-JAN-22 09:30 | 20-JAN-22 00:00 | 3 | 9 | days | EHTL |
| | 8 | 11-JAN-22 10:25 | 20-JAN-22 00:00 | 3 | 9 | days | EHTL |
| | 9 | 11-JAN-22 09:50 | 20-JAN-22 00:00 | 3 | 9 | days | EHTL |
| | 10 | 12-JAN-22 15:10 | 20-JAN-22 00:00 | 3 | 7 | days | EHT |
| | 11 | 11-JAN-22 12:50 | 20-JAN-22 00:00 | 3 | 8 | days | EHTL |
| | 12 | 11-JAN-22 11:35 | 20-JAN-22 00:00 | 3 | 9 | days | EHTL |
| | 13 | 11-JAN-22 11:50 | 20-JAN-22 00:00 | 3 | 9 | days | EHTL |
| | 14 | 12-JAN-22 14:00 | 20-JAN-22 00:00 | 3 | 7 | days | EHT |
| | 15 | 11-JAN-22 15:00 | 20-JAN-22 00:00 | 3 | 8 | days | EHTL |
| | 16 | 12-JAN-22 15:30 | 20-JAN-22 00:00 | 3 | 7 | days | EHT |

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2678895 were received on 14-JAN-22 09:05.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 30 of 30

Contact: Garnet Cornell

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Thursday, February 10, 2022

Christine Paradis
ALS Environmental
1081 Barton St.
Thunder Bay, ON P7B 5N3

Re: ALS Workorder: 2201305
Project Name:
Project Number: L2678895

Dear Ms. Paradis:

Four water samples were received from ALS Environmental, on 1/24/2022. The samples were scheduled for the following analysis:

Radium-226

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

<original signed by>

For

ALS Environmental
Katie M. OBrien
Project Manager

Accreditations: ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

| ALS Environmental – Fort Collins | |
|----------------------------------|---------------------------------|
| Accreditation Body | License or Certification Number |
| Arizona | AZ0828 |
| California (CA) | 2926 |
| Colorado (CO) | CO01099 |
| Florida (FL) | E87914 |
| Idaho (ID) | CO01099 |
| Kansas (KS) | E-10381 |
| Kentucky (KY) | 90137 |
| Oklahoma | 1301 |
| PJLA (DoD ELAP/ISO 170250) | 95377 |
| PJLA (DOE-AP/ISO 17025) | 95377 |
| Maryland (MD) | 285 |
| Missouri (MO) | 175 |
| Nebraska(NE) | NE-OS-24-13 |
| Nevada (NV) | CO010992018-1 |
| New York (NY) | 12036 |
| North Dakota (ND) | R-057 |
| Oklahoma (OK) | 1301 |
| Pennsylvania (PA) | 68-03116 |
| Tennessee (TN) | TN02976 |
| Texas (TX) | T104704241 |
| Utah (UT) | CO01099 |
| Washington (WA) | C1280 |
| Virginia | 460305 |

40 CFR Part 136: All analyses for Clean Water Act samples are analyzed using the 40 CFR Part 136 specified method and include all the QC requirements.



2201305

Radium-226:

The samples were prepared and analyzed according to the current revision of SOP 783.

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2201305

Client Name: ALS Environmental

Client Project Name:

Client Project Number: L2678895

Client PO Number: L2678895

| Client Sample Number | Lab Sample Number | COC Number | Matrix | Date Collected | Time Collected |
|----------------------|-------------------|------------|--------|----------------|----------------|
| L2678895-9 | 2201305-1 | | WATER | 11-Jan-22 | |
| L2678895-11 | 2201305-2 | | WATER | 11-Jan-22 | |
| L2678895-12 | 2201305-3 | | WATER | 11-Jan-22 | |
| L2678895-13 | 2201305-4 | | WATER | 11-Jan-22 | |



2201305

L2678895

THUNDERBAY

Subcontract Request Form

Subcontract To:

ALS ENVIRONMENTAL - FORT COLLINS, COLORADO, USA

225 COMMERCE DRIVE
FORT COLLINS, CO 80524

AJ

NOTES: Please reference on final report and invoice: PO# L2678895
ALS requires QC data to be provided with your final results.

Please see enclosed 4 sample(s) in 4 Container(s)

1
2
3
4

| SAMPLE NUMBER | ANALYTICAL REQUIRED | DATE SAMPLED | PRIORITY FLAG |
|-------------------------------|---|--------------|---------------|
| | | DUE DATE | |
| L2678895-9 SW20_SW_20220111 | | 1/11/2022 | |
| | Ra226 by Alpha Scint, MDC=0.01 Bq/L (RA226-MMER-FC 1) | 2/16/2022 | |
| L2678895-11 SW22A_SW_20220111 | | 1/11/2022 | |
| | Ra226 by Alpha Scint, MDC=0.01 Bq/L (RA226-MMER-FC 1) | 2/16/2022 | |
| L2678895-12 SW23_SW_20220111 | | 1/11/2022 | |
| | Ra226 by Alpha Scint, MDC=0.01 Bq/L (RA226-MMER-FC 1) | 2/16/2022 | |
| L2678895-13 SW24_SW_20220111 | | 1/11/2022 | |
| | Ra226 by Alpha Scint, MDC=0.01 Bq/L (RA226-MMER-FC 1) | 2/16/2022 | |

Subcontract Info Contact: Thunder Bay Login (807) 623-6463
Analysis and reporting info contact: Christine Paradis
1081 BARTON STREET
THUNDER BAY, ON P7B 5N3
Phone: (807) 623-6463 Email: christine.paradis@alsglobal.com

Please email confirmation of receipt to: christine.paradis@alsglobal.com

Shipped By: A Date Shipped: _____
Received By: <original signed by> Date Received: 1/24/22 9:30
Verified By: _____ Date Verified: _____
Temperature: _____

Sample Integrity Issues: _____



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: ALS THUNDERBAY

Workorder No: 2201305

Project Manager: KMO

Initials: AXK

Date: 01/24/2022

| | | N/A | YES | NO |
|-----|--|-----|-----|----|
| 1. | Are airbills / shipping documents present and/or removable? Tracking number: _____ | | X | |
| 2. | Are custody seals on shipping containers intact? | X | | |
| 3. | Are custody seals on sample containers intact? | X | | |
| 4. | Is there a COC (chain-of-custody) present? | | X | |
| 5. | Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.) | | X | |
| 6. | Are short-hold samples present? | | | X |
| 7. | Are all samples within holding times for the requested analyses? | | X | |
| 8. | Were all sample containers received intact? (not broken or leaking) | | X | |
| 9. | Is there sufficient sample for the requested analyses? | | X | |
| 10. | Are samples in proper containers for requested analyses? (form 250, <i>Sample Handling Guidelines</i>) | | X | |
| 11. | Are all aqueous samples preserved correctly, if required? (excluding volatiles) | | X | |
| 12. | Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea) | X | | |
| 13. | Were the samples shipped on ice? | | | X |
| 14. | Were cooler temperatures measured at 0.1-6.0°C? | | | X |
| | IR gun used*: #5 | | | X |
| | COOLER INFORMATION | | | |
| | Cooler #: <u>1</u> | | | |
| | Temperature (°C): <u>AMB</u> | | | |
| | # of custody seals on cooler: <u>0</u> | | | |
| | External µR/hr reading: <u>10</u> | | | |
| | Background µR/hr reading: <u>10</u> | | | |
| | Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES (If no, see Form 008.) | | | |

* Please provide details here for NO responses to boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

Were unpreserved bottles pH checked? NA All client bottle ID's vs ALS lab ID's double-checked by: AK

If applicable, was the client contacted? **YES / NO / NA** Contact: _____ Date/Time: _____

Project Manager Signature / Date: <original signed by> _____

ORIGIN ID: YQTA (907) 623-6463
CURTIS ROBINSON
ALS ENVIRONMENTAL
1081 BARTON ST.
THUNDER BAY, ON P7B5N3
CANADA CA

SHIP DATE: 18JAN22
ACTWTG: 12.00 LB
CAD: 103492004/NET4460
DIMS: 12.9X11 IN
BILL SENDER

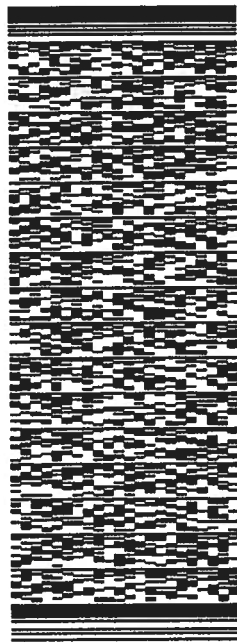
TO RECEIVING

ALS ENVIRONMENTAL FT COLLINS
225 COMMERCE DR

FORT COLLINS CO 80524

REF: (970) 490-1511
INV. DEPT. PO

DO NOT OPEN (US)
56D.J4F289/FE4A



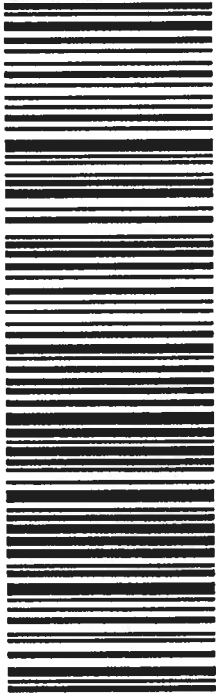
TRK# 7757 8553 2586
0430

4:30P
INTL ** 2DAY **

SAFTCA

80524
DEN
CO-US

2201305



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The invalidity or unenforceability of any provisions shall not affect any other part of this Air Waybill. Unless otherwise indicated, **FEDERAL EXPRESS CORPORATION, 2005 Corporate Avenue, Memphis, TN 38132, USA,** is the first carrier of this shipment. Email address located at www.fedex.com.

Client: ALS Environmental
Project: L2678895
Sample ID: L2678895-9
Legal Location:
Collection Date: 1/11/2022

Date: 10-Feb-22
Work Order: 2201305
Lab ID: 2201305-1
Matrix: WATER
Percent Moisture:

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---------------------|------|----------------|-------|---|----------------|
| Radium-226 by Radon Emanation - Method 903.1 | | | SOP 783 | | Prep Date: 2/1/2022 PrepBy: EJE | |
| Ra-226 | 0.0030 (+/- 0.0041) | U | 0.0065 | BQ/l | NA | 2/9/2022 10:49 |
| Carr: BARIUM | 89.9 | | 40-110 | %REC | DL = NA | 2/9/2022 10:49 |

Client: ALS Environmental

Date: 10-Feb-22

Project: L2678895

Work Order: 2201305

Sample ID: L2678895-11

Lab ID: 2201305-2

Legal Location:

Matrix: WATER

Collection Date: 1/11/2022

Percent Moisture:

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---------------------|------|----------------|-------|----------------------------|--------------------|
| Radium-226 by Radon Emanation - Method 903.1 | | | SOP 783 | | Prep Date: 2/1/2022 | PrepBy: EJE |
| Ra-226 | 0.0045 (+/- 0.0041) | U | 0.006 | BQ/l | NA | 2/9/2022 10:49 |
| Carr: BARIUM | 90.4 | | 40-110 | %REC | DL = NA | 2/9/2022 10:49 |

Client: ALS Environmental

Date: 10-Feb-22

Project: L2678895

Work Order: 2201305

Sample ID: L2678895-12

Lab ID: 2201305-3

Legal Location:

Matrix: WATER

Collection Date: 1/11/2022

Percent Moisture:

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---------------------|------|----------------|-------|----------------------------|--------------------|
| Radium-226 by Radon Emanation - Method 903.1 | | | SOP 783 | | Prep Date: 2/1/2022 | PrepBy: EJE |
| Ra-226 | 0.0046 (+/- 0.0039) | U | 0.0054 | BQ/l | NA | 2/9/2022 10:49 |
| Carr: BARIUM | 92.1 | | 40-110 | %REC | DL = NA | 2/9/2022 10:49 |

Client: ALS Environmental
 Project: L2678895
 Sample ID: L2678895-13
 Legal Location:
 Collection Date: 1/11/2022

Date: 10-Feb-22
 Work Order: 2201305
 Lab ID: 2201305-4
 Matrix: WATER
 Percent Moisture:

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|----------------------|------|----------------|-------|----------------------------|--------------------|
| Radium-226 by Radon Emanation - Method 903.1 | | | SOP 783 | | Prep Date: 2/1/2022 | PrepBy: EJE |
| Ra-226 | 0.00041 (+/- 0.0034) | U | 0.0065 | BQ/l | NA | 2/9/2022 10:49 |
| Carr: BARIUM | 92.7 | | 40-110 | %REC | DL = NA | 2/9/2022 10:49 |

Client: ALS Environmental
Project: L2678895
Sample ID: L2678895-13
Legal Location:
Collection Date: 1/11/2022

Date: 10-Feb-22
Work Order: 2201305
Lab ID: 2201305-4
Matrix: WATER
Percent Moisture:

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------|--------|------|--------------|-------|-----------------|---------------|
|----------|--------|------|--------------|-------|-----------------|---------------|

Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC
- U or ND - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G - Sample density differs by more than 15% of LCS density.
- D - DER is greater than Control Limit
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits
- NC - Not Calculated for duplicate results less than 5 times MDC
- B - Analyte concentration greater than MDC.
- B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

- B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
- U or ND - Indicates that the compound was analyzed for but not detected.
- E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
- M - Duplicate injection precision was not met.
- N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- * - Duplicate analysis (relative percent difference) not within control limits.
- S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

- U or ND - Indicates that the compound was analyzed for but not detected.
- B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E - Analyte concentration exceeds the upper level of the calibration range.
- J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A - A tentatively identified compound is a suspected aldol-condensation product.
- X - The analyte was diluted below an accurate quantitation level.
- * - The spike recovery is equal to or outside the control criteria used.
- + - The relative percent difference (RPD) equals or exceeds the control criteria.
- G - A pattern resembling gasoline was detected in this sample.
- D - A pattern resembling diesel was detected in this sample.
- M - A pattern resembling motor oil was detected in this sample.
- C - A pattern resembling crude oil was detected in this sample.
- 4 - A pattern resembling JP-4 was detected in this sample.
- 5 - A pattern resembling JP-5 was detected in this sample.
- H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
 - gasoline
 - JP-8
 - diesel
 - mineral spirits
 - motor oil
 - Stoddard solvent
 - bunker C

ALS -- Fort Collins

Date: 2/10/2022 4:14:4

Client: ALS Environmental
 Work Order: 2201305
 Project: L2678895

QC BATCH REPORT

Batch ID: RE220201-1-1 Instrument ID: Alpha Scin Method: Radium-226 by Radon Emanation

| LCS | | Sample ID: RE220201-1 | | | Units: BQ/I | | | Analysis Date: 2/9/2022 12:08 | | | |
|--------------|------------------|-----------------------|---------|---------------|---------------------|---------------|----------------|-------------------------------|-----|-----------|------|
| Client ID: | | Run ID: RE220201-1A | | | Prep Date: 2/1/2022 | | | DF: NA | | | |
| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
| Ra-226 | 1.77 (+/- 0.441) | 0.00998 | 1.717 | | 103 | 67-120 | | | | | P |
| Carr: BARIUM | 14300 | | 14970 | | 95.3 | 40-110 | | | | | |

| LCSD | | Sample ID: RE220201-1 | | | Units: BQ/I | | | Analysis Date: 2/9/2022 12:08 | | | |
|--------------|------------------|-----------------------|---------|---------------|---------------------|---------------|----------------|-------------------------------|------|-----------|------|
| Client ID: | | Run ID: RE220201-1A | | | Prep Date: 2/1/2022 | | | DF: NA | | | |
| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
| Ra-226 | 1.56 (+/- 0.389) | 0.00799 | 1.717 | | 90.7 | 67-120 | | 1.77 | 0.35 | 2.13 | P |
| Carr: BARIUM | 14500 | | 14970 | | 96.8 | 40-110 | | 14300 | | | |

| MB | | Sample ID: RE220201-1 | | | Units: BQ/I | | | Analysis Date: 2/9/2022 11:31 | | | |
|--------------|---------------------|-----------------------|---------|---------------|---------------------|---------------|----------------|-------------------------------|-----|-----------|------|
| Client ID: | | Run ID: RE220201-1A | | | Prep Date: 2/1/2022 | | | DF: NA | | | |
| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
| Ra-226 | 0.0023 (+/- 0.0040) | 0.0069 | | | | | | | | | U |
| Carr: BARIUM | 14000 | | 14970 | | 93.7 | 40-110 | | | | | |

The following samples were analyzed in this batch:

| | | |
|-----------|-----------|-----------|
| 2201305-1 | 2201305-2 | 2201305-3 |
| 2201305-4 | | |

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 1/17/2022 8:51:00 AM COC Number: ALS-445783691 | | | | | | Containers SW Kit Ra-226 Bottle | | | | | | | | | Number of Containers | |
|---|-------|------|-------|------------------|--------|--|---------------|--|--|--|--|--|--|--|----------------------|----------|
| | | | | | | Filtered N N | | | | | | | | | | |
| | | | | | | Preservatives | | | | | | | | | | |
| | | | | | | NG-SW-P-TB RA226-MMER-BE | | | | | | | | | | |
| Sample Code | | | | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | Number of Containers | Comments |
| FB_SW_20220111 | | | | 01/12/2022 12:00 | QC | X | | | | | | | | | 11 | |
| SW02_SW_20220111 | 9.4 | 6.12 | -0.03 | 01/11/2022 10:20 | SW | X | | | | | | | | | 11 | |
| SW03_SW_20220111 | 0 | 6.67 | -0.21 | 01/11/2022 12:40 | SW | X | | | | | | | | | 11 | |
| SW06_SW_20220111 | 9.4 | 6.12 | -0.03 | 01/11/2022 12:00 | QC | X | | | | | | | | | 11 | |
| SW10_SW_20220111 | 19.13 | 7.78 | 1.65 | 01/11/2022 09:15 | SW | X | | | | | | | | | 11 | |
| SW15_SW_20220111 | 0 | 6.98 | -0.77 | 01/11/2022 10:55 | SW | X | | | | | | | | | 11 | |

| Signature | Data/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|----------------------|--|------|--|
| Shipped by | 1/17/2022 8:51:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | | | | |

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 1/17/2022 8:51:00 AM COC Number: ALS-445783691 | | | | | | Containers SW Kit Ra-226 Bottle | | | | | | | | | Number of Containers | |
|---|-------|------|-------|------------------|--------|--|---|--|--|--|--|--|--|--|----------------------|----------|
| | | | | | | Filtered N N | | | | | | | | | | |
| | | | | | | Preservatives | | | | | | | | | | |
| | | | | | | NG-SW-P-TB RA226-MMER-BE | | | | | | | | | | |
| Sample Code | | | | Date and Time | Matrix | | | | | | | | | | | Comments |
| SW16_SW_20220111 | 11.54 | 7.62 | -0.63 | 01/11/2022 09:30 | SW | X | | | | | | | | | 11 | |
| SW17_SW_20220111 | 9.76 | 7.26 | -0.68 | 01/11/2022 10:25 | SW | X | | | | | | | | | 11 | |
| SW20_SW_20220111 | 13.64 | 6.66 | 0.58 | 01/11/2022 09:50 | SW | X | X | | | | | | | | 12 | |
| SW21A_SW_20220111 | 0 | 6.88 | 0.14 | 01/12/2022 15:10 | SW | X | | | | | | | | | 11 | |
| SW22A_SW_20220111 | 16.16 | 6.33 | 0.02 | 01/11/2022 12:50 | SW | X | X | | | | | | | | 12 | |
| SW23_SW_20220111 | 0 | 6.82 | -0.77 | 01/11/2022 11:35 | SW | X | X | | | | | | | | 12 | |
| SW24_SW_20220111 | 0 | 6.71 | -0.78 | 01/11/2022 11:50 | SW | X | X | | | | | | | | 12 | |

| | | | | | | | | |
|------------------|--|----------------------|--|--|-------------|--|--|--|
| Signature | | Date/Time | Shipping Details | | ATTN | | Special Instructions: | |
| Shipped by | | 1/17/2022 8:51:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com | |
| Received by | | | | | | | | |

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 1/17/2022 8:51:00 AM COC Number: ALS-445783691 | | | | | | Containers SW Kit Ra-226 Bottle | | | | | | | | | Number of Containers | |
|---|-------|------|-------|------------------|--------|--|---------------|--|--|--|--|--|--|----------------------|----------------------|--|
| | | | | | | Filtered N N | | | | | | | | | | |
| | | | | | | Preservatives | | | | | | | | | | |
| | | | | | | NG-SW-P-TB RA226-MMER-BE | | | | | | | | | | |
| Sample Code | | | | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | Number of Containers | Comments | |
| SW25_SW_20220111 | 14.9 | 7.12 | 0.94 | 01/12/2022 14:00 | SW | X | | | | | | | | 11 | | |
| SW26_SW_20220111 | 20.66 | 6.98 | 1.02 | 01/11/2022 15:00 | SW | X | | | | | | | | 11 | | |
| SW27_SW_20220111 | 6.5 | 7.11 | -0.67 | 01/12/2022 15:30 | SW | X | | | | | | | | 11 | | |
| TB_SW_20220111 | | | | 01/12/2022 12:00 | QC | X | | | | | | | | 11 | | |

Drinking Water (DW) Samples (client use)

Sample Receipt Details (ALS use only)

Cooling Method: None Ice Ice Packs Frozen Cooling Initiated

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|----------------------|--|------|--|
| Shipped by | 1/17/2022 8:51:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | | | | |

| |
|--|
| Are samples taken from a Regulated DW System? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Are samples for human consumption / use? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Samples from a Regulated DW System require an Authorized DW COC form |

| | | | | | | | |
|---|--|--|--|------------------------------|--|--|--|
| Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | |
| Cooler Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA Sample Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA | | | | | | | |
| Initial Cooler Temperatures °C | | | | Final Cooler Temperatures °C | | | |
| | | | | | | | |

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|----------------------|--|------|--|
| Shipped by | 1/17/2022 8:51:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | | | | |



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 11-FEB-22
Report Date: 16-MAR-22 14:36 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2685225
Project P.O. #: 4500058071
Job Reference:
C of C Numbers:
Legal Site Desc:

<original signed by>

Christine Paradis
Project Manager

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ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2685225-1 FB_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 11-FEB-22 | R5721099 |
| Conductivity (EC) | <0.2 | <W | 1.0 | uS/cm | | 11-FEB-22 | R5721523 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 16-FEB-22 | |
| pH | 5.51 | | 0.10 | pH | | 11-FEB-22 | R5721523 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 12-FEB-22 | R5721617 |
| Total Dissolved Solids | 6 | <DL | 10 | mg/L | | 12-FEB-22 | R5722145 |
| Turbidity | 0.20 | | 0.10 | NTU | | 12-FEB-22 | R5721525 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 12-FEB-22 | R5722036 |
| Alkalinity, Total (as CaCO3) | 0.4 | <DL | 2.0 | mg/L | | 11-FEB-22 | R5721523 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 11-FEB-22 | R5721097 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 14-FEB-22 | R5723307 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-FEB-22 | R5723307 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 11-FEB-22 | 17-FEB-22 | R5727084 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 11-FEB-22 | 11-FEB-22 | R5723597 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 14-FEB-22 | R5723307 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0002 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 16-FEB-22 | 16-FEB-22 | R5726517 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 15-FEB-22 | R5725016 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0004 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00060 | mg/L | | 15-FEB-22 | R5725076 |
| Arsenic (As)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Barium (Ba)-Total | 0.00001 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Boron (B)-Total | 0.0015 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 15-FEB-22 | R5725076 |
| Calcium (Ca)-Total | 0.004 | <DL | 0.20 | mg/L | | 15-FEB-22 | R5725076 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 15-FEB-22 | R5725076 |
| Chromium (Cr)-Total | 0.00010 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 15-FEB-22 | R5725076 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Iron (Fe)-Total | <0.0005 | <W | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Lead (Pb)-Total | <0.00001 | <W | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2685225-1 FB_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Magnesium (Mg)-Total | <0.0002 | <W | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723764 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Nickel (Ni)-Total | 0.00002 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Rubidium (Rb)-Total | <0.000002 | <W | 0.00020 | mg/L | | 15-FEB-22 | R5725076 |
| Selenium (Se)-Total | 0.000005 | <DL | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Silicon (Si)-Total | 0.048 | <DL | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Sodium (Na)-Total | 0.025 | <DL | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Strontium (Sr)-Total | 0.000010 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Tellurium (Te)-Total | 0.00008 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725076 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Titanium (Ti)-Total | <0.00001 | <W | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Vanadium (V)-Total | <0.00005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Zinc (Zn)-Total | 0.0005 | <DL | 0.0030 | mg/L | | 15-FEB-22 | R5725076 |
| Zirconium (Zr)-Total | 0.000004 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-FEB-22 | R5722936 |
| Aluminum (Al)-Dissolved | 0.0004 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 15-FEB-22 | R5725323 |
| Arsenic (As)-Dissolved | <0.0000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Barium (Ba)-Dissolved | <0.000005 | <W | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Boron (B)-Dissolved | 0.0025 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 15-FEB-22 | R5725323 |
| Calcium (Ca)-Dissolved | <0.002 | <W | 0.20 | mg/L | | 15-FEB-22 | R5725323 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 15-FEB-22 | R5725323 |
| Chromium (Cr)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 15-FEB-22 | R5725323 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Iron (Fe)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|----------|-----------|-----------|----------|
| L2685225-1 FB_SW_20220208 Sampled By: Client on 08-FEB-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Magnesium (Mg)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Manganese (Mn)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723759 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Rubidium (Rb)-Dissolved | 0.000002 | <DL | 0.00020 | mg/L | | 15-FEB-22 | R5725323 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Silicon (Si)-Dissolved | 0.045 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Sodium (Na)-Dissolved | 0.025 | <DL | 0.10 | mg/L | | 15-FEB-22 | R5725323 |
| Strontium (Sr)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725323 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Zinc (Zn)-Dissolved | 0.0004 | <DL | 0.0030 | mg/L | | 15-FEB-22 | R5725323 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 11-FEB-22 | R5725476 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 11-FEB-22 | 16-FEB-22 | R5725556 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 15-FEB-22 | 15-FEB-22 | R5723700 |
| L2685225-2 SW02_SW_20220208 Sampled By: Client on 08-FEB-22 @ 13:45 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 6.49 | | 0 | mg/L | | 12-FEB-22 | R5721389 |
| pH, Client Supplied | 6.81 | | 0.10 | pH | | 12-FEB-22 | R5721389 |
| Temperature, Client Supplied | .03 | | 0 | Degree C | | 12-FEB-22 | R5721389 |
| Physical Tests | | | | | | | |
| Color, True | 242 | | 2.0 | CU | | 11-FEB-22 | R5721099 |
| Conductivity (EC) | 202 | | 1.0 | uS/cm | | 11-FEB-22 | R5721523 |
| Hardness (as CaCO3) | 137 | | 0.51 | mg/L | | 16-FEB-22 | |
| pH | 7.16 | | 0.10 | pH | | 11-FEB-22 | R5721523 |
| Total Suspended Solids | 18.0 | | 3.0 | mg/L | | 15-FEB-22 | R5725164 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-2 SW02_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 13:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Total Dissolved Solids | 208 | | 20 | mg/L | | 15-FEB-22 | R5725206 |
| Turbidity | 7.31 | | 0.10 | NTU | | 11-FEB-22 | R5721177 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 7.0 | | 2.0 | mg/L | | 12-FEB-22 | R5722036 |
| Alkalinity, Total (as CaCO3) | 109 | | 2.0 | mg/L | | 11-FEB-22 | R5721523 |
| Ammonia, Total (as N) | 0.292 | | 0.0050 | mg/L | | 11-FEB-22 | R5721097 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-FEB-22 | |
| Chloride (Cl) | 1.42 | | 0.10 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Fluoride (F) | 0.027 | | 0.020 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Nitrate (as N) | 0.040 | <T | 0.020 | mg/L | | 14-FEB-22 | R5723307 |
| Nitrite (as N) | 0.003 | <DL | 0.010 | mg/L | | 14-FEB-22 | R5723307 |
| Total Kjeldahl Nitrogen | 2.18 | | 0.050 | mg/L | 11-FEB-22 | 17-FEB-22 | R5727084 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 11-FEB-22 | 11-FEB-22 | R5723597 |
| Sulfate (SO4) | 1.60 | <T | 0.30 | mg/L | | 14-FEB-22 | R5723307 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0013 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Total | 0.0014 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Free | 0.0015 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 53.8 | DLM | 2.5 | mg/L | 16-FEB-22 | 16-FEB-22 | R5726517 |
| Total Organic Carbon | 53.7 | | 0.50 | mg/L | | 15-FEB-22 | R5725016 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.247 | | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Antimony (Sb)-Total | 0.000195 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725076 |
| Arsenic (As)-Total | 0.00136 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Barium (Ba)-Total | 0.0181 | | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Beryllium (Be)-Total | 0.0000200 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Bismuth (Bi)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Boron (B)-Total | 0.0060 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Cadmium (Cd)-Total | 0.000044 | <T | 0.000017 | mg/L | | 15-FEB-22 | R5725076 |
| Calcium (Ca)-Total | 32.9 | | 0.20 | mg/L | | 15-FEB-22 | R5725076 |
| Cesium (Cs)-Total | 0.0000390 | | 0.000010 | mg/L | | 15-FEB-22 | R5725076 |
| Chromium (Cr)-Total | 0.00648 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Cobalt (Co)-Total | 0.000860 | <T | 0.00050 | mg/L | | 15-FEB-22 | R5725076 |
| Copper (Cu)-Total | 0.00314 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Iron (Fe)-Total | 1.16 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Lead (Pb)-Total | 0.00084 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Lithium (Li)-Total | 0.0032 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Magnesium (Mg)-Total | 13.9 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Manganese (Mn)-Total | 0.337 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Mercury (Hg)-Total | 0.000005 | <DL | 0.000030 | mg/L | | 15-FEB-22 | R5723764 |
| Molybdenum (Mo)-Total | 0.000170 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-2 SW02_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 13:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Nickel (Ni)-Total | 0.00184 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Phosphorus (P)-Total | 0.020 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Potassium (K)-Total | 1.02 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Rubidium (Rb)-Total | 0.00274 | | 0.00020 | mg/L | | 15-FEB-22 | R5725076 |
| Selenium (Se)-Total | 0.000210 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Silicon (Si)-Total | 10.4 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Silver (Ag)-Total | 0.000063 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Sodium (Na)-Total | 2.37 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Strontium (Sr)-Total | 0.0558 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Sulfur (S)-Total | 1.0 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 15-FEB-22 | R5725076 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Titanium (Ti)-Total | 0.00409 | | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Tungsten (W)-Total | 0.00005 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Uranium (U)-Total | 0.0000985 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Vanadium (V)-Total | 0.00070 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Zinc (Zn)-Total | 0.0150 | | 0.0030 | mg/L | | 15-FEB-22 | R5725076 |
| Zirconium (Zr)-Total | 0.000392 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-FEB-22 | R5722936 |
| Aluminum (Al)-Dissolved | 0.0662 | | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Antimony (Sb)-Dissolved | 0.000070 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725323 |
| Arsenic (As)-Dissolved | 0.00115 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Barium (Ba)-Dissolved | 0.0149 | | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Bismuth (Bi)-Dissolved | 0.000016 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Boron (B)-Dissolved | 0.0060 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Cadmium (Cd)-Dissolved | 0.0000120 | <DL | 0.000017 | mg/L | | 15-FEB-22 | R5725323 |
| Calcium (Ca)-Dissolved | 31.9 | | 0.20 | mg/L | | 15-FEB-22 | R5725323 |
| Cesium (Cs)-Dissolved | 0.0000080 | <DL | 0.000010 | mg/L | | 15-FEB-22 | R5725323 |
| Chromium (Cr)-Dissolved | 0.00478 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Cobalt (Co)-Dissolved | 0.000262 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725323 |
| Copper (Cu)-Dissolved | 0.00164 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Iron (Fe)-Dissolved | 0.748 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Lead (Pb)-Dissolved | 0.00017 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Lithium (Li)-Dissolved | 0.0034 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Magnesium (Mg)-Dissolved | 13.9 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Manganese (Mn)-Dissolved | 0.0923 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723759 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-2 SW02_SW_20220208 Sampled By: Client on 08-FEB-22 @ 13:45 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Molybdenum (Mo)-Dissolved | 0.000106 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Nickel (Ni)-Dissolved | 0.00128 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Potassium (K)-Dissolved | 1.01 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Rubidium (Rb)-Dissolved | 0.00260 | | 0.00020 | mg/L | | 15-FEB-22 | R5725323 |
| Selenium (Se)-Dissolved | 0.000215 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Silicon (Si)-Dissolved | 10.1 | | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Silver (Ag)-Dissolved | 0.0000070 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Sodium (Na)-Dissolved | 2.33 | | 0.10 | mg/L | | 15-FEB-22 | R5725323 |
| Strontium (Sr)-Dissolved | 0.0518 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Sulfur (S)-Dissolved | 0.8 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725323 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Tin (Sn)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Titanium (Ti)-Dissolved | 0.00158 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Uranium (U)-Dissolved | 0.0000810 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Vanadium (V)-Dissolved | 0.00044 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Zinc (Zn)-Dissolved | 0.0102 | | 0.0030 | mg/L | | 15-FEB-22 | R5725323 |
| Zirconium (Zr)-Dissolved | 0.000274 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 3.3 | | 2.0 | mg/L | | 11-FEB-22 | R5725476 |
| Chemical Oxygen Demand | 150 | | 10 | mg/L | 11-FEB-22 | 16-FEB-22 | R5725556 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 15-FEB-22 | 15-FEB-22 | R5723700 |
| L2685225-3 SW06_SW_20220208 Sampled By: Client on 08-FEB-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 94.6 | | 2.0 | CU | | 11-FEB-22 | R5721099 |
| Conductivity (EC) | 287 | | 1.0 | uS/cm | | 11-FEB-22 | R5721523 |
| Hardness (as CaCO3) | 155 | | 0.51 | mg/L | | 16-FEB-22 | |
| pH | 7.54 | | 0.10 | pH | | 11-FEB-22 | R5721523 |
| Total Suspended Solids | 9.5 | | 3.0 | mg/L | | 15-FEB-22 | R5725164 |
| Total Dissolved Solids | 196 | | 20 | mg/L | | 15-FEB-22 | R5725206 |
| Turbidity | 7.97 | | 0.10 | NTU | | 12-FEB-22 | R5721525 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 3.2 | | 2.0 | mg/L | | 12-FEB-22 | R5722036 |
| Alkalinity, Total (as CaCO3) | 148 | | 2.0 | mg/L | | 11-FEB-22 | R5721523 |
| Ammonia, Total (as N) | 0.072 | <T | 0.0050 | mg/L | | 11-FEB-22 | R5721097 |
| Chloride (Cl) | 5.55 | | 0.10 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Fluoride (F) | 0.072 | | 0.020 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-3 SW06_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Nitrate (as N) | 0.084 | <T | 0.020 | mg/L | | 14-FEB-22 | R5723307 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 14-FEB-22 | R5723307 |
| Total Kjeldahl Nitrogen | 1.31 | | 0.050 | mg/L | 11-FEB-22 | 17-FEB-22 | R5727084 |
| Orthophosphate-Dissolved (as P) | 0.0119 | | 0.0030 | mg/L | 11-FEB-22 | 11-FEB-22 | R5723597 |
| Sulfate (SO4) | 6.40 | | 0.30 | mg/L | | 14-FEB-22 | R5723307 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Free | 0.0009 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 28.2 | DLM | 2.5 | mg/L | 16-FEB-22 | 16-FEB-22 | R5726517 |
| Total Organic Carbon | 29.0 | | 0.50 | mg/L | | 15-FEB-22 | R5725016 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.210 | | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Antimony (Sb)-Total | 0.000060 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725076 |
| Arsenic (As)-Total | 0.00092 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Barium (Ba)-Total | 0.0192 | | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Beryllium (Be)-Total | 0.0000221 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Boron (B)-Total | 0.0145 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Cadmium (Cd)-Total | 0.000023 | <T | 0.000017 | mg/L | | 15-FEB-22 | R5725076 |
| Calcium (Ca)-Total | 38.5 | | 0.20 | mg/L | | 15-FEB-22 | R5725076 |
| Cesium (Cs)-Total | 0.0000300 | | 0.000010 | mg/L | | 15-FEB-22 | R5725076 |
| Chromium (Cr)-Total | 0.00088 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Cobalt (Co)-Total | 0.000435 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725076 |
| Copper (Cu)-Total | 0.00176 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Iron (Fe)-Total | 0.886 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Lead (Pb)-Total | 0.00029 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Lithium (Li)-Total | 0.0060 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Magnesium (Mg)-Total | 16.5 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Manganese (Mn)-Total | 0.120 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723764 |
| Molybdenum (Mo)-Total | 0.000305 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Nickel (Ni)-Total | 0.00156 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Phosphorus (P)-Total | 0.050 | | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Potassium (K)-Total | 1.75 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Rubidium (Rb)-Total | 0.00172 | | 0.00020 | mg/L | | 15-FEB-22 | R5725076 |
| Selenium (Se)-Total | 0.000140 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Silicon (Si)-Total | 6.72 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Silver (Ag)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Sodium (Na)-Total | 5.42 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Strontium (Sr)-Total | 0.105 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-3 SW06_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Sulfur (S)-Total | 2.6 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725076 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Titanium (Ti)-Total | 0.00649 | | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Tungsten (W)-Total | 0.00006 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Uranium (U)-Total | 0.000738 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Vanadium (V)-Total | 0.00105 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Zinc (Zn)-Total | 0.0060 | <T | 0.0030 | mg/L | | 15-FEB-22 | R5725076 |
| Zirconium (Zr)-Total | 0.000436 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-FEB-22 | R5722936 |
| Aluminum (Al)-Dissolved | 0.0232 | <T | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Antimony (Sb)-Dissolved | 0.000050 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725323 |
| Arsenic (As)-Dissolved | 0.000801 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Barium (Ba)-Dissolved | 0.0167 | | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Boron (B)-Dissolved | 0.0150 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Cadmium (Cd)-Dissolved | 0.0000080 | <DL | 0.000017 | mg/L | | 15-FEB-22 | R5725323 |
| Calcium (Ca)-Dissolved | 36.1 | | 0.20 | mg/L | | 15-FEB-22 | R5725323 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 15-FEB-22 | R5725323 |
| Chromium (Cr)-Dissolved | 0.00034 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Cobalt (Co)-Dissolved | 0.000136 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725323 |
| Copper (Cu)-Dissolved | 0.00134 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Iron (Fe)-Dissolved | 0.458 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Lead (Pb)-Dissolved | 0.00009 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Lithium (Li)-Dissolved | 0.0066 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Magnesium (Mg)-Dissolved | 15.8 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Manganese (Mn)-Dissolved | 0.0211 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723759 |
| Molybdenum (Mo)-Dissolved | 0.000268 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Nickel (Ni)-Dissolved | 0.00130 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Phosphorus (P)-Dissolved | 0.025 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Potassium (K)-Dissolved | 1.70 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Rubidium (Rb)-Dissolved | 0.00129 | | 0.00020 | mg/L | | 15-FEB-22 | R5725323 |
| Selenium (Se)-Dissolved | 0.000120 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Silicon (Si)-Dissolved | 6.46 | | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Sodium (Na)-Dissolved | 5.36 | | 0.10 | mg/L | | 15-FEB-22 | R5725323 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|----------|-----------|-----------|----------|
| L2685225-3 SW06_SW_20220208 Sampled By: Client on 08-FEB-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Strontium (Sr)-Dissolved | 0.104 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Sulfur (S)-Dissolved | 2.6 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725323 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Titanium (Ti)-Dissolved | 0.00176 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Tungsten (W)-Dissolved | 0.000006 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Uranium (U)-Dissolved | 0.000739 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Vanadium (V)-Dissolved | 0.00054 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Zinc (Zn)-Dissolved | 0.0042 | <T | 0.0030 | mg/L | | 15-FEB-22 | R5725323 |
| Zirconium (Zr)-Dissolved | 0.000380 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.4 | | 2.0 | mg/L | | 11-FEB-22 | R5725476 |
| Chemical Oxygen Demand | 76 | | 10 | mg/L | 11-FEB-22 | 16-FEB-22 | R5725556 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 15-FEB-22 | 15-FEB-22 | R5723700 |
| L2685225-4 SW10_SW_20220208 Sampled By: Client on 08-FEB-22 @ 10:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 13.1 | | 0 | mg/L | | 12-FEB-22 | R5721389 |
| pH, Client Supplied | 6.67 | | 0.10 | pH | | 12-FEB-22 | R5721389 |
| Temperature, Client Supplied | .18 | | 0 | Degree C | | 12-FEB-22 | R5721389 |
| Physical Tests | | | | | | | |
| Color, True | 95.4 | | 2.0 | CU | | 11-FEB-22 | R5721099 |
| Conductivity (EC) | 285 | | 1.0 | uS/cm | | 11-FEB-22 | R5721523 |
| Hardness (as CaCO3) | 157 | | 0.51 | mg/L | | 16-FEB-22 | |
| pH | 7.53 | | 0.10 | pH | | 11-FEB-22 | R5721523 |
| Total Suspended Solids | 6.0 | | 3.0 | mg/L | | 12-FEB-22 | R5721617 |
| Total Dissolved Solids | 204 | | 13 | mg/L | | 12-FEB-22 | R5722145 |
| Turbidity | 7.34 | | 0.10 | NTU | | 12-FEB-22 | R5721525 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 3.4 | | 2.0 | mg/L | | 12-FEB-22 | R5722036 |
| Alkalinity, Total (as CaCO3) | 148 | | 2.0 | mg/L | | 11-FEB-22 | R5721523 |
| Ammonia, Total (as N) | 0.070 | <T | 0.0050 | mg/L | | 11-FEB-22 | R5721097 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-FEB-22 | |
| Chloride (Cl) | 5.25 | | 0.10 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Fluoride (F) | 0.055 | | 0.020 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Nitrate (as N) | 0.080 | <T | 0.020 | mg/L | | 14-FEB-22 | R5723307 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-FEB-22 | R5723307 |
| Total Kjeldahl Nitrogen | 1.14 | | 0.050 | mg/L | 11-FEB-22 | 17-FEB-22 | R5727084 |
| Orthophosphate-Dissolved (as P) | 0.0161 | | 0.0030 | mg/L | 11-FEB-22 | 11-FEB-22 | R5723597 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-4 SW10_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 10:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Sulfate (SO4) | 6.20 | | 0.30 | mg/L | | 14-FEB-22 | R5723307 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Total | 0.0014 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Free | 0.0004 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 26.9 | DLM | 2.5 | mg/L | 16-FEB-22 | 16-FEB-22 | R5726517 |
| Total Organic Carbon | 27.5 | | 0.50 | mg/L | | 15-FEB-22 | R5725016 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.161 | | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Antimony (Sb)-Total | 0.000055 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725076 |
| Arsenic (As)-Total | 0.00092 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Barium (Ba)-Total | 0.0184 | | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Beryllium (Be)-Total | 0.0000147 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Boron (B)-Total | 0.0150 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Cadmium (Cd)-Total | 0.000017 | <T | 0.000017 | mg/L | | 15-FEB-22 | R5725076 |
| Calcium (Ca)-Total | 37.4 | | 0.20 | mg/L | | 15-FEB-22 | R5725076 |
| Cesium (Cs)-Total | 0.0000190 | | 0.000010 | mg/L | | 15-FEB-22 | R5725076 |
| Chromium (Cr)-Total | 0.00062 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Cobalt (Co)-Total | 0.000395 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725076 |
| Copper (Cu)-Total | 0.00138 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Iron (Fe)-Total | 0.816 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Lead (Pb)-Total | 0.00021 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Lithium (Li)-Total | 0.0058 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Magnesium (Mg)-Total | 16.1 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Manganese (Mn)-Total | 0.119 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723764 |
| Molybdenum (Mo)-Total | 0.000315 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Nickel (Ni)-Total | 0.00152 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Phosphorus (P)-Total | 0.040 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Potassium (K)-Total | 1.77 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Rubidium (Rb)-Total | 0.00156 | | 0.00020 | mg/L | | 15-FEB-22 | R5725076 |
| Selenium (Se)-Total | 0.000135 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Silicon (Si)-Total | 6.67 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Silver (Ag)-Total | 0.000021 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Sodium (Na)-Total | 5.28 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Strontium (Sr)-Total | 0.107 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Sulfur (S)-Total | 2.6 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725076 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-4 SW10_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 10:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Titanium (Ti)-Total | 0.00491 | | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Tungsten (W)-Total | 0.00002 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Uranium (U)-Total | 0.000749 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Vanadium (V)-Total | 0.00095 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Zinc (Zn)-Total | 0.0040 | <T | 0.0030 | mg/L | | 15-FEB-22 | R5725076 |
| Zirconium (Zr)-Total | 0.000420 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-FEB-22 | R5722936 |
| Aluminum (Al)-Dissolved | 0.0216 | <T | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Antimony (Sb)-Dissolved | 0.000050 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725323 |
| Arsenic (As)-Dissolved | 0.000768 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Barium (Ba)-Dissolved | 0.0158 | | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Boron (B)-Dissolved | 0.0150 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Cadmium (Cd)-Dissolved | 0.0000070 | <DL | 0.000017 | mg/L | | 15-FEB-22 | R5725323 |
| Calcium (Ca)-Dissolved | 36.8 | | 0.20 | mg/L | | 15-FEB-22 | R5725323 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 15-FEB-22 | R5725323 |
| Chromium (Cr)-Dissolved | 0.00024 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Cobalt (Co)-Dissolved | 0.000096 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725323 |
| Copper (Cu)-Dissolved | 0.00106 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Iron (Fe)-Dissolved | 0.424 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Lead (Pb)-Dissolved | 0.00006 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Lithium (Li)-Dissolved | 0.0064 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Magnesium (Mg)-Dissolved | 15.9 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Manganese (Mn)-Dissolved | 0.00286 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723759 |
| Molybdenum (Mo)-Dissolved | 0.000276 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Nickel (Ni)-Dissolved | 0.00126 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Phosphorus (P)-Dissolved | 0.030 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Potassium (K)-Dissolved | 1.73 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Rubidium (Rb)-Dissolved | 0.00128 | | 0.00020 | mg/L | | 15-FEB-22 | R5725323 |
| Selenium (Se)-Dissolved | 0.000130 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Silicon (Si)-Dissolved | 6.40 | | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Silver (Ag)-Dissolved | 0.0000170 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Sodium (Na)-Dissolved | 5.20 | | 0.10 | mg/L | | 15-FEB-22 | R5725323 |
| Strontium (Sr)-Dissolved | 0.102 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Sulfur (S)-Dissolved | 2.6 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725323 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|---------|----------|-----------|-----------|----------|
| L2685225-4 SW10_SW_20220208 Sampled By: Client on 08-FEB-22 @ 10:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Tin (Sn)-Dissolved | 0.000005 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Titanium (Ti)-Dissolved | 0.00156 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Uranium (U)-Dissolved | 0.000709 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Vanadium (V)-Dissolved | 0.00052 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Zinc (Zn)-Dissolved | 0.0026 | <DL | 0.0030 | mg/L | | 15-FEB-22 | R5725323 |
| Zirconium (Zr)-Dissolved | 0.000360 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.5 | | 2.0 | mg/L | | 11-FEB-22 | R5725476 |
| Chemical Oxygen Demand | 73 | | 10 | mg/L | 11-FEB-22 | 16-FEB-22 | R5725556 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 15-FEB-22 | 15-FEB-22 | R5723700 |
| L2685225-5 SW15_SW_20220208 Sampled By: Client on 08-FEB-22 @ 12:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 7.24 | | 0 | mg/L | | 12-FEB-22 | R5721389 |
| pH, Client Supplied | 6.49 | | 0.10 | pH | | 12-FEB-22 | R5721389 |
| Temperature, Client Supplied | 1.05 | | 0 | Degree C | | 12-FEB-22 | R5721389 |
| Physical Tests | | | | | | | |
| Color, True | 195 | | 2.0 | CU | | 11-FEB-22 | R5721099 |
| Conductivity (EC) | 334 | | 1.0 | uS/cm | | 11-FEB-22 | R5721523 |
| Hardness (as CaCO3) | 185 | | 0.51 | mg/L | | 16-FEB-22 | |
| pH | 7.45 | | 0.10 | pH | | 11-FEB-22 | R5721523 |
| Total Suspended Solids | 9.0 | | 3.0 | mg/L | | 15-FEB-22 | R5725164 |
| Total Dissolved Solids | 266 | | 20 | mg/L | | 15-FEB-22 | R5725206 |
| Turbidity | 17.6 | | 0.10 | NTU | | 12-FEB-22 | R5721525 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 5.2 | | 2.0 | mg/L | | 12-FEB-22 | R5722036 |
| Alkalinity, Total (as CaCO3) | 170 | | 2.0 | mg/L | | 11-FEB-22 | R5721523 |
| Ammonia, Total (as N) | 0.124 | <T | 0.0050 | mg/L | | 11-FEB-22 | R5721097 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-FEB-22 | |
| Chloride (Cl) | 6.57 | | 0.10 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Fluoride (F) | 0.057 | | 0.020 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Nitrate (as N) | 0.200 | <T | 0.020 | mg/L | | 14-FEB-22 | R5723307 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-FEB-22 | R5723307 |
| Total Kjeldahl Nitrogen | 1.60 | | 0.050 | mg/L | 11-FEB-22 | 17-FEB-22 | R5727084 |
| Orthophosphate-Dissolved (as P) | 0.0342 | | 0.0030 | mg/L | 11-FEB-22 | 11-FEB-22 | R5723597 |
| Sulfate (SO4) | 10.3 | | 0.30 | mg/L | | 14-FEB-22 | R5723307 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-5 SW15_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Free | 0.0010 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 41.7 | DLM | 2.5 | mg/L | 16-FEB-22 | 16-FEB-22 | R5726517 |
| Total Organic Carbon | 43.2 | | 0.50 | mg/L | | 15-FEB-22 | R5725016 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.328 | | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Antimony (Sb)-Total | 0.000105 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725076 |
| Arsenic (As)-Total | 0.00147 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Barium (Ba)-Total | 0.0174 | | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Beryllium (Be)-Total | 0.0000315 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Boron (B)-Total | 0.0130 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Cadmium (Cd)-Total | 0.000037 | <T | 0.000017 | mg/L | | 15-FEB-22 | R5725076 |
| Calcium (Ca)-Total | 45.9 | | 0.20 | mg/L | | 15-FEB-22 | R5725076 |
| Cesium (Cs)-Total | 0.0000430 | | 0.000010 | mg/L | | 15-FEB-22 | R5725076 |
| Chromium (Cr)-Total | 0.00092 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Cobalt (Co)-Total | 0.000610 | <T | 0.00050 | mg/L | | 15-FEB-22 | R5725076 |
| Copper (Cu)-Total | 0.00224 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Iron (Fe)-Total | 1.66 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Lead (Pb)-Total | 0.00048 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Lithium (Li)-Total | 0.0066 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Magnesium (Mg)-Total | 19.8 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Manganese (Mn)-Total | 0.155 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Mercury (Hg)-Total | 0.000005 | <DL | 0.000030 | mg/L | | 15-FEB-22 | R5723764 |
| Molybdenum (Mo)-Total | 0.000280 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Nickel (Ni)-Total | 0.00266 | <T | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Phosphorus (P)-Total | 0.065 | | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Potassium (K)-Total | 2.12 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Rubidium (Rb)-Total | 0.00225 | | 0.00020 | mg/L | | 15-FEB-22 | R5725076 |
| Selenium (Se)-Total | 0.000185 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Silicon (Si)-Total | 8.67 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Silver (Ag)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Sodium (Na)-Total | 6.15 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Strontium (Sr)-Total | 0.105 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Sulfur (S)-Total | 4.0 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 15-FEB-22 | R5725076 |
| Thorium (Th)-Total | 0.00016 | | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Titanium (Ti)-Total | 0.0109 | | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Tungsten (W)-Total | 0.00001 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-5 SW15_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Uranium (U)-Total | 0.00104 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Vanadium (V)-Total | 0.00170 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Zinc (Zn)-Total | 0.0065 | <T | 0.0030 | mg/L | | 15-FEB-22 | R5725076 |
| Zirconium (Zr)-Total | 0.000870 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-FEB-22 | R5722936 |
| Aluminum (Al)-Dissolved | 0.0642 | | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Antimony (Sb)-Dissolved | 0.000100 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725323 |
| Arsenic (As)-Dissolved | 0.00131 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Barium (Ba)-Dissolved | 0.0149 | | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Beryllium (Be)-Dissolved | 0.000016 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Bismuth (Bi)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Boron (B)-Dissolved | 0.0130 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Cadmium (Cd)-Dissolved | 0.0000230 | <T | 0.000017 | mg/L | | 15-FEB-22 | R5725323 |
| Calcium (Ca)-Dissolved | 42.7 | | 0.20 | mg/L | | 15-FEB-22 | R5725323 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 15-FEB-22 | R5725323 |
| Chromium (Cr)-Dissolved | 0.00033 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Cobalt (Co)-Dissolved | 0.000416 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725323 |
| Copper (Cu)-Dissolved | 0.00184 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Iron (Fe)-Dissolved | 1.11 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Lead (Pb)-Dissolved | 0.00022 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Lithium (Li)-Dissolved | 0.0066 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Magnesium (Mg)-Dissolved | 18.9 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Manganese (Mn)-Dissolved | 0.131 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723759 |
| Molybdenum (Mo)-Dissolved | 0.000286 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Nickel (Ni)-Dissolved | 0.00210 | <T | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Phosphorus (P)-Dissolved | 0.045 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Potassium (K)-Dissolved | 2.05 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Rubidium (Rb)-Dissolved | 0.00160 | | 0.00020 | mg/L | | 15-FEB-22 | R5725323 |
| Selenium (Se)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Silicon (Si)-Dissolved | 8.44 | | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Sodium (Na)-Dissolved | 6.19 | | 0.10 | mg/L | | 15-FEB-22 | R5725323 |
| Strontium (Sr)-Dissolved | 0.0985 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Sulfur (S)-Dissolved | 4.2 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725323 |
| Thorium (Th)-Dissolved | 0.00011 | | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Titanium (Ti)-Dissolved | 0.00554 | | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|--------|----------|-----------|-----------|----------|
| L2685225-5 SW15_SW_20220208 Sampled By: Client on 08-FEB-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tungsten (W)-Dissolved | 0.000006 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Uranium (U)-Dissolved | 0.000965 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Vanadium (V)-Dissolved | 0.00090 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Zinc (Zn)-Dissolved | 0.0056 | <T | 0.0030 | mg/L | | 15-FEB-22 | R5725323 |
| Zirconium (Zr)-Dissolved | 0.000760 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 11-FEB-22 | R5725476 |
| Chemical Oxygen Demand | 112 | | 10 | mg/L | 11-FEB-22 | 16-FEB-22 | R5725556 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 15-FEB-22 | 15-FEB-22 | R5723700 |
| L2685225-6 SW16_SW_20220208 Sampled By: Client on 08-FEB-22 @ 10:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 13.5 | | 0 | mg/L | | 12-FEB-22 | R5721389 |
| pH, Client Supplied | 5.41 | | 0.10 | pH | | 12-FEB-22 | R5721389 |
| Temperature, Client Supplied | 1.48 | | 0 | Degree C | | 12-FEB-22 | R5721389 |
| Physical Tests | | | | | | | |
| Color, True | 22.0 | | 2.0 | CU | | 11-FEB-22 | R5721099 |
| Conductivity (EC) | 65.2 | | 1.0 | uS/cm | | 11-FEB-22 | R5721523 |
| Hardness (as CaCO3) | 27.6 | | 0.51 | mg/L | | 16-FEB-22 | |
| pH | 7.29 | | 0.10 | pH | | 11-FEB-22 | R5721523 |
| Total Suspended Solids | 1.5 | <DL | 3.0 | mg/L | | 12-FEB-22 | R5721617 |
| Total Dissolved Solids | 44 | | 10 | mg/L | | 12-FEB-22 | R5722145 |
| Turbidity | 1.70 | | 0.10 | NTU | | 12-FEB-22 | R5721525 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 12-FEB-22 | R5722036 |
| Alkalinity, Total (as CaCO3) | 24.6 | | 2.0 | mg/L | | 11-FEB-22 | R5721523 |
| Ammonia, Total (as N) | 0.024 | <T | 0.0050 | mg/L | | 11-FEB-22 | R5721097 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-FEB-22 | |
| Chloride (Cl) | 2.17 | | 0.10 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Fluoride (F) | 0.048 | | 0.020 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Nitrate (as N) | 0.080 | <T | 0.020 | mg/L | | 14-FEB-22 | R5723307 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-FEB-22 | R5723307 |
| Total Kjeldahl Nitrogen | 1.11 | | 0.050 | mg/L | 11-FEB-22 | 17-FEB-22 | R5727084 |
| Orthophosphate-Dissolved (as P) | 0.0033 | | 0.0030 | mg/L | 11-FEB-22 | 11-FEB-22 | R5723597 |
| Sulfate (SO4) | 3.30 | <T | 0.30 | mg/L | | 14-FEB-22 | R5723307 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0002 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 9.38 | | 0.50 | mg/L | 16-FEB-22 | 16-FEB-22 | R5726517 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-6 SW16_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 10:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Total Organic Carbon | 11.3 | | 0.50 | mg/L | | 15-FEB-22 | R5725016 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0520 | | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725076 |
| Arsenic (As)-Total | 0.00039 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Barium (Ba)-Total | 0.00851 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Beryllium (Be)-Total | 0.0000042 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Boron (B)-Total | 0.0035 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Cadmium (Cd)-Total | 0.000004 | <DL | 0.000017 | mg/L | | 15-FEB-22 | R5725076 |
| Calcium (Ca)-Total | 7.65 | | 0.20 | mg/L | | 15-FEB-22 | R5725076 |
| Cesium (Cs)-Total | 0.0000090 | <DL | 0.000010 | mg/L | | 15-FEB-22 | R5725076 |
| Chromium (Cr)-Total | 0.00034 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Cobalt (Co)-Total | 0.000040 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725076 |
| Copper (Cu)-Total | 0.00092 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Iron (Fe)-Total | 0.0875 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Lead (Pb)-Total | 0.00004 | <DL | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Magnesium (Mg)-Total | 2.40 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Manganese (Mn)-Total | 0.0064 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723764 |
| Molybdenum (Mo)-Total | 0.000150 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Nickel (Ni)-Total | 0.00054 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Potassium (K)-Total | 0.74 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Rubidium (Rb)-Total | 0.00170 | | 0.00020 | mg/L | | 15-FEB-22 | R5725076 |
| Selenium (Se)-Total | 0.000115 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Silicon (Si)-Total | 1.76 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Sodium (Na)-Total | 3.24 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Strontium (Sr)-Total | 0.0232 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Sulfur (S)-Total | 1.0 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725076 |
| Thorium (Th)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Tin (Sn)-Total | 0.00005 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Titanium (Ti)-Total | 0.00136 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Uranium (U)-Total | 0.0000655 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Vanadium (V)-Total | 0.00035 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 15-FEB-22 | R5725076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-6 SW16_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 10:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Zirconium (Zr)-Total | 0.000100 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-FEB-22 | R5722936 |
| Aluminum (Al)-Dissolved | 0.0122 | <T | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725323 |
| Arsenic (As)-Dissolved | 0.000377 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Barium (Ba)-Dissolved | 0.00793 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Beryllium (Be)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Boron (B)-Dissolved | 0.0040 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Cadmium (Cd)-Dissolved | 0.0000020 | <DL | 0.000017 | mg/L | | 15-FEB-22 | R5725323 |
| Calcium (Ca)-Dissolved | 7.29 | | 0.20 | mg/L | | 15-FEB-22 | R5725323 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 15-FEB-22 | R5725323 |
| Chromium (Cr)-Dissolved | 0.00014 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Cobalt (Co)-Dissolved | 0.000014 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725323 |
| Copper (Cu)-Dissolved | 0.00086 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Iron (Fe)-Dissolved | 0.0305 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Lithium (Li)-Dissolved | 0.0006 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Magnesium (Mg)-Dissolved | 2.28 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Manganese (Mn)-Dissolved | 0.00100 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723759 |
| Molybdenum (Mo)-Dissolved | 0.000138 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Nickel (Ni)-Dissolved | 0.00048 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Potassium (K)-Dissolved | 0.88 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Rubidium (Rb)-Dissolved | 0.00159 | | 0.00020 | mg/L | | 15-FEB-22 | R5725323 |
| Selenium (Se)-Dissolved | 0.000130 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Silicon (Si)-Dissolved | 1.71 | | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Sodium (Na)-Dissolved | 3.25 | | 0.10 | mg/L | | 15-FEB-22 | R5725323 |
| Strontium (Sr)-Dissolved | 0.0221 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Sulfur (S)-Dissolved | 1.0 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725323 |
| Thorium (Th)-Dissolved | 0.00001 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Titanium (Ti)-Dissolved | 0.00020 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Uranium (U)-Dissolved | 0.0000575 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Vanadium (V)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|--------|----------|-----------|-----------|----------|
| L2685225-6 SW16_SW_20220208 Sampled By: Client on 08-FEB-22 @ 10:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Zinc (Zn)-Dissolved | 0.0008 | <DL | 0.0030 | mg/L | | 15-FEB-22 | R5725323 |
| Zirconium (Zr)-Dissolved | 0.000080 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 11-FEB-22 | R5725476 |
| Chemical Oxygen Demand | 25 | | 10 | mg/L | 11-FEB-22 | 16-FEB-22 | R5725556 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 15-FEB-22 | 15-FEB-22 | R5723700 |
| L2685225-7 SW17_SW_20220208 Sampled By: Client on 08-FEB-22 @ 11:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 10.28 | | 0 | mg/L | | 12-FEB-22 | R5721389 |
| pH, Client Supplied | 5.96 | | 0.10 | pH | | 12-FEB-22 | R5721389 |
| Temperature, Client Supplied | .12 | | 0 | Degree C | | 12-FEB-22 | R5721389 |
| Physical Tests | | | | | | | |
| Color, True | 28.3 | | 2.0 | CU | | 11-FEB-22 | R5721099 |
| Conductivity (EC) | 87.4 | | 1.0 | uS/cm | | 11-FEB-22 | R5721523 |
| Hardness (as CaCO3) | 37.2 | | 0.51 | mg/L | | 16-FEB-22 | |
| pH | 7.29 | | 0.10 | pH | | 11-FEB-22 | R5721523 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 12-FEB-22 | R5721617 |
| Total Dissolved Solids | 34 | | 10 | mg/L | | 12-FEB-22 | R5722145 |
| Turbidity | 2.27 | | 0.10 | NTU | | 12-FEB-22 | R5721525 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 12-FEB-22 | R5722036 |
| Alkalinity, Total (as CaCO3) | 34.8 | | 2.0 | mg/L | | 11-FEB-22 | R5721523 |
| Ammonia, Total (as N) | 0.016 | <T | 0.0050 | mg/L | | 11-FEB-22 | R5721097 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-FEB-22 | |
| Chloride (Cl) | 3.14 | | 0.10 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Fluoride (F) | 0.045 | | 0.020 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Nitrate (as N) | 0.114 | <T | 0.020 | mg/L | | 14-FEB-22 | R5723307 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-FEB-22 | R5723307 |
| Total Kjeldahl Nitrogen | 0.454 | | 0.050 | mg/L | 11-FEB-22 | 17-FEB-22 | R5727084 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 11-FEB-22 | 11-FEB-22 | R5723597 |
| Sulfate (SO4) | 5.40 | | 0.30 | mg/L | | 14-FEB-22 | R5723307 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0001 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 10.8 | | 0.50 | mg/L | 16-FEB-22 | 16-FEB-22 | R5726517 |
| Total Organic Carbon | 10.9 | | 0.50 | mg/L | | 16-FEB-22 | R5726516 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0726 | | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-7 SW17_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 11:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Antimony (Sb)-Total | 0.000050 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725076 |
| Arsenic (As)-Total | 0.00043 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Barium (Ba)-Total | 0.0108 | | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Beryllium (Be)-Total | 0.0000052 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Boron (B)-Total | 0.0045 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Cadmium (Cd)-Total | 0.000010 | <DL | 0.000017 | mg/L | | 15-FEB-22 | R5725076 |
| Calcium (Ca)-Total | 10.2 | | 0.20 | mg/L | | 15-FEB-22 | R5725076 |
| Cesium (Cs)-Total | 0.0000120 | | 0.000010 | mg/L | | 15-FEB-22 | R5725076 |
| Chromium (Cr)-Total | 0.00038 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Cobalt (Co)-Total | 0.000065 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725076 |
| Copper (Cu)-Total | 0.00096 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Iron (Fe)-Total | 0.144 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Lead (Pb)-Total | 0.00006 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Lithium (Li)-Total | 0.0006 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Magnesium (Mg)-Total | 3.21 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Manganese (Mn)-Total | 0.0120 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723764 |
| Molybdenum (Mo)-Total | 0.000215 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Nickel (Ni)-Total | 0.00062 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Potassium (K)-Total | 1.03 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Rubidium (Rb)-Total | 0.00199 | | 0.00020 | mg/L | | 15-FEB-22 | R5725076 |
| Selenium (Se)-Total | 0.000125 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Silicon (Si)-Total | 2.12 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Sodium (Na)-Total | 4.42 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Strontium (Sr)-Total | 0.0278 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Sulfur (S)-Total | 1.8 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725076 |
| Thorium (Th)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Titanium (Ti)-Total | 0.00188 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Uranium (U)-Total | 0.0000805 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Vanadium (V)-Total | 0.00035 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Zinc (Zn)-Total | 0.0010 | <DL | 0.0030 | mg/L | | 15-FEB-22 | R5725076 |
| Zirconium (Zr)-Total | 0.000120 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-FEB-22 | R5722936 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-7 SW17_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 11:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0170 | <T | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725323 |
| Arsenic (As)-Dissolved | 0.000386 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Barium (Ba)-Dissolved | 0.00997 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Boron (B)-Dissolved | 0.0045 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 15-FEB-22 | R5725323 |
| Calcium (Ca)-Dissolved | 9.82 | | 0.20 | mg/L | | 15-FEB-22 | R5725323 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 15-FEB-22 | R5725323 |
| Chromium (Cr)-Dissolved | 0.00015 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Cobalt (Co)-Dissolved | 0.000018 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725323 |
| Copper (Cu)-Dissolved | 0.00084 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Iron (Fe)-Dissolved | 0.0525 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Lithium (Li)-Dissolved | 0.0008 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Magnesium (Mg)-Dissolved | 3.07 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Manganese (Mn)-Dissolved | 0.00314 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723759 |
| Molybdenum (Mo)-Dissolved | 0.000196 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Nickel (Ni)-Dissolved | 0.00054 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Potassium (K)-Dissolved | 1.04 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Rubidium (Rb)-Dissolved | 0.00181 | | 0.00020 | mg/L | | 15-FEB-22 | R5725323 |
| Selenium (Se)-Dissolved | 0.000105 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Silicon (Si)-Dissolved | 2.00 | | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Sodium (Na)-Dissolved | 4.54 | | 0.10 | mg/L | | 15-FEB-22 | R5725323 |
| Strontium (Sr)-Dissolved | 0.0274 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Sulfur (S)-Dissolved | 1.8 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725323 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Titanium (Ti)-Dissolved | 0.00042 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Uranium (U)-Dissolved | 0.0000730 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Vanadium (V)-Dissolved | 0.00020 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Zinc (Zn)-Dissolved | 0.0014 | <DL | 0.0030 | mg/L | | 15-FEB-22 | R5725323 |
| Zirconium (Zr)-Dissolved | 0.000092 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Aggregate Organics | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|---------|----------|-----------|-----------|----------|
| L2685225-7 SW17_SW_20220208 Sampled By: Client on 08-FEB-22 @ 11:00 Matrix: SW | | | | | | | |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 11-FEB-22 | R5725476 |
| Chemical Oxygen Demand | 30 | | 10 | mg/L | 11-FEB-22 | 16-FEB-22 | R5725556 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 15-FEB-22 | 15-FEB-22 | R5723700 |
| L2685225-8 SW20_SW_20220208 Sampled By: Client on 08-FEB-22 @ 09:45 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 13.61 | | 0 | mg/L | | 12-FEB-22 | R5721389 |
| pH, Client Supplied | 5.96 | | 0.10 | pH | | 12-FEB-22 | R5721389 |
| Temperature, Client Supplied | 2.18 | | 0 | Degree C | | 12-FEB-22 | R5721389 |
| Physical Tests | | | | | | | |
| Color, True | 87.5 | | 2.0 | CU | | 11-FEB-22 | R5721099 |
| Conductivity (EC) | 257 | | 1.0 | uS/cm | | 11-FEB-22 | R5721523 |
| Hardness (as CaCO3) | 140 | | 0.51 | mg/L | | 16-FEB-22 | |
| pH | 7.36 | | 0.10 | pH | | 11-FEB-22 | R5721523 |
| Total Suspended Solids | 11.0 | | 3.0 | mg/L | | 12-FEB-22 | R5721617 |
| Total Dissolved Solids | 194 | | 13 | mg/L | | 12-FEB-22 | R5722145 |
| Turbidity | 8.42 | | 0.10 | NTU | | 12-FEB-22 | R5721525 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 4.6 | | 2.0 | mg/L | | 12-FEB-22 | R5722036 |
| Alkalinity, Total (as CaCO3) | 134 | | 2.0 | mg/L | | 11-FEB-22 | R5721523 |
| Ammonia, Total (as N) | 0.088 | <T | 0.0050 | mg/L | | 11-FEB-22 | R5721097 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-FEB-22 | |
| Chloride (Cl) | 5.25 | | 0.10 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Fluoride (F) | 0.045 | | 0.020 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Nitrate (as N) | 0.046 | <T | 0.020 | mg/L | | 14-FEB-22 | R5723307 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-FEB-22 | R5723307 |
| Total Kjeldahl Nitrogen | 1.10 | | 0.050 | mg/L | 11-FEB-22 | 17-FEB-22 | R5727084 |
| Orthophosphate-Dissolved (as P) | 0.0121 | | 0.0030 | mg/L | 11-FEB-22 | 11-FEB-22 | R5723597 |
| Sulfate (SO4) | 4.50 | <T | 0.30 | mg/L | | 14-FEB-22 | R5723307 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 26.5 | DLM | 2.5 | mg/L | 16-FEB-22 | 16-FEB-22 | R5726517 |
| Total Organic Carbon | 25.5 | | 0.50 | mg/L | | 16-FEB-22 | R5726319 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.200 | | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Antimony (Sb)-Total | 0.000070 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725076 |
| Arsenic (As)-Total | 0.00074 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Barium (Ba)-Total | 0.0202 | | 0.010 | mg/L | | 15-FEB-22 | R5725076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-8 SW20_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 09:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Beryllium (Be)-Total | 0.0000126 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Boron (B)-Total | 0.0110 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Cadmium (Cd)-Total | 0.000028 | <T | 0.000017 | mg/L | | 15-FEB-22 | R5725076 |
| Calcium (Ca)-Total | 34.0 | | 0.20 | mg/L | | 15-FEB-22 | R5725076 |
| Cesium (Cs)-Total | 0.0000300 | | 0.000010 | mg/L | | 15-FEB-22 | R5725076 |
| Chromium (Cr)-Total | 0.00078 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Cobalt (Co)-Total | 0.000455 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725076 |
| Copper (Cu)-Total | 0.00162 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Iron (Fe)-Total | 0.847 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Lead (Pb)-Total | 0.00031 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Lithium (Li)-Total | 0.0046 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Magnesium (Mg)-Total | 14.3 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Manganese (Mn)-Total | 0.181 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723764 |
| Molybdenum (Mo)-Total | 0.000145 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Nickel (Ni)-Total | 0.00130 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Phosphorus (P)-Total | 0.025 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Potassium (K)-Total | 1.78 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Rubidium (Rb)-Total | 0.00191 | | 0.00020 | mg/L | | 15-FEB-22 | R5725076 |
| Selenium (Se)-Total | 0.000125 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Silicon (Si)-Total | 6.47 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Silver (Ag)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Sodium (Na)-Total | 4.61 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Strontium (Sr)-Total | 0.0804 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Sulfur (S)-Total | 1.8 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725076 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Titanium (Ti)-Total | 0.00578 | | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Tungsten (W)-Total | 0.00003 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Uranium (U)-Total | 0.000350 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Vanadium (V)-Total | 0.00095 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Zinc (Zn)-Total | 0.0115 | | 0.0030 | mg/L | | 15-FEB-22 | R5725076 |
| Zirconium (Zr)-Total | 0.000354 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-FEB-22 | R5722936 |
| Aluminum (Al)-Dissolved | 0.0184 | <T | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Antimony (Sb)-Dissolved | 0.000055 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725323 |
| Arsenic (As)-Dissolved | 0.000666 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-8 SW20_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 09:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Barium (Ba)-Dissolved | 0.0171 | | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Bismuth (Bi)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Boron (B)-Dissolved | 0.0110 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Cadmium (Cd)-Dissolved | 0.0000070 | <DL | 0.000017 | mg/L | | 15-FEB-22 | R5725323 |
| Calcium (Ca)-Dissolved | 32.5 | | 0.20 | mg/L | | 15-FEB-22 | R5725323 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 15-FEB-22 | R5725323 |
| Chromium (Cr)-Dissolved | 0.00024 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Cobalt (Co)-Dissolved | 0.000076 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725323 |
| Copper (Cu)-Dissolved | 0.00122 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Iron (Fe)-Dissolved | 0.425 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Lithium (Li)-Dissolved | 0.0048 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Magnesium (Mg)-Dissolved | 14.3 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Manganese (Mn)-Dissolved | 0.00360 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723759 |
| Molybdenum (Mo)-Dissolved | 0.000148 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Nickel (Ni)-Dissolved | 0.00100 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Potassium (K)-Dissolved | 1.76 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Rubidium (Rb)-Dissolved | 0.00157 | | 0.00020 | mg/L | | 15-FEB-22 | R5725323 |
| Selenium (Se)-Dissolved | 0.000115 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Silicon (Si)-Dissolved | 6.24 | | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Sodium (Na)-Dissolved | 4.73 | | 0.10 | mg/L | | 15-FEB-22 | R5725323 |
| Strontium (Sr)-Dissolved | 0.0774 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Sulfur (S)-Dissolved | 1.8 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725323 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Titanium (Ti)-Dissolved | 0.00120 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Tungsten (W)-Dissolved | 0.000006 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Uranium (U)-Dissolved | 0.000339 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Vanadium (V)-Dissolved | 0.00044 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Zinc (Zn)-Dissolved | 0.0062 | <T | 0.0030 | mg/L | | 15-FEB-22 | R5725323 |
| Zirconium (Zr)-Dissolved | 0.000268 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.6 | | 2.0 | mg/L | | 11-FEB-22 | R5725476 |
| Chemical Oxygen Demand | 71 | | 10 | mg/L | 11-FEB-22 | 16-FEB-22 | R5725556 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 15-FEB-22 | 15-FEB-22 | R5723700 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|----------|-----------|-----------|----------|
| L2685225-8 SW20_SW_20220208 Sampled By: Client on 08-FEB-22 @ 09:45 Matrix: SW | | | | | | | |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0057 | | 0.0057 | Bq/L | 24-FEB-22 | 07-MAR-22 | R5730543 |
| L2685225-9 SW23_SW_20220208 Sampled By: Client on 08-FEB-22 @ 13:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 7.52 | | 0 | mg/L | | 12-FEB-22 | R5721389 |
| pH, Client Supplied | 6.73 | | 0.10 | pH | | 12-FEB-22 | R5721389 |
| Temperature, Client Supplied | 1.41 | | 0 | Degree C | | 12-FEB-22 | R5721389 |
| Physical Tests | | | | | | | |
| Color, True | 132 | | 2.0 | CU | | 11-FEB-22 | R5721099 |
| Conductivity (EC) | 370 | | 1.0 | uS/cm | | 11-FEB-22 | R5721523 |
| Hardness (as CaCO3) | 203 | | 0.51 | mg/L | | 16-FEB-22 | |
| pH | 7.44 | | 0.10 | pH | | 11-FEB-22 | R5721523 |
| Total Suspended Solids | 11.5 | | 3.0 | mg/L | | 15-FEB-22 | R5725164 |
| Total Dissolved Solids | 270 | | 20 | mg/L | | 15-FEB-22 | R5725206 |
| Turbidity | 16.8 | | 0.10 | NTU | | 11-FEB-22 | R5721177 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 6.6 | | 2.0 | mg/L | | 12-FEB-22 | R5722036 |
| Alkalinity, Total (as CaCO3) | 194 | | 2.0 | mg/L | | 11-FEB-22 | R5721523 |
| Ammonia, Total (as N) | 0.030 | <T | 0.0050 | mg/L | | 11-FEB-22 | R5721097 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-FEB-22 | |
| Chloride (Cl) | 9.00 | | 0.10 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Fluoride (F) | 0.063 | | 0.020 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Nitrate (as N) | 0.044 | <T | 0.020 | mg/L | | 14-FEB-22 | R5723307 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-FEB-22 | R5723307 |
| Total Kjeldahl Nitrogen | 1.45 | | 0.050 | mg/L | 11-FEB-22 | 17-FEB-22 | R5727084 |
| Orthophosphate-Dissolved (as P) | 0.0504 | | 0.0030 | mg/L | 11-FEB-22 | 11-FEB-22 | R5723597 |
| Sulfate (SO4) | 8.05 | | 0.30 | mg/L | | 14-FEB-22 | R5723307 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0010 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Free | 0.0013 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 34.7 | DLM | 2.5 | mg/L | 16-FEB-22 | 16-FEB-22 | R5726517 |
| Total Organic Carbon | 34.4 | | 0.50 | mg/L | | 16-FEB-22 | R5726516 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.542 | | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Antimony (Sb)-Total | 0.000090 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725076 |
| Arsenic (As)-Total | 0.00136 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Barium (Ba)-Total | 0.0199 | | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Beryllium (Be)-Total | 0.0000376 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-9 SW23_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 13:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Boron (B)-Total | 0.0115 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Cadmium (Cd)-Total | 0.000026 | <T | 0.000017 | mg/L | | 15-FEB-22 | R5725076 |
| Calcium (Ca)-Total | 49.8 | | 0.20 | mg/L | | 15-FEB-22 | R5725076 |
| Cesium (Cs)-Total | 0.0000760 | | 0.000010 | mg/L | | 15-FEB-22 | R5725076 |
| Chromium (Cr)-Total | 0.00152 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Cobalt (Co)-Total | 0.00106 | <T | 0.00050 | mg/L | | 15-FEB-22 | R5725076 |
| Copper (Cu)-Total | 0.00176 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Iron (Fe)-Total | 1.93 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Lead (Pb)-Total | 0.00044 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Lithium (Li)-Total | 0.0060 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Magnesium (Mg)-Total | 21.0 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Manganese (Mn)-Total | 0.532 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723764 |
| Molybdenum (Mo)-Total | 0.000245 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Nickel (Ni)-Total | 0.00292 | <T | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Phosphorus (P)-Total | 0.100 | | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Potassium (K)-Total | 1.95 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Rubidium (Rb)-Total | 0.00262 | | 0.00020 | mg/L | | 15-FEB-22 | R5725076 |
| Selenium (Se)-Total | 0.000195 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Silicon (Si)-Total | 9.20 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Silver (Ag)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Sodium (Na)-Total | 6.41 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Strontium (Sr)-Total | 0.114 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Sulfur (S)-Total | 3.4 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 15-FEB-22 | R5725076 |
| Thorium (Th)-Total | 0.00014 | | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Titanium (Ti)-Total | 0.0184 | | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Uranium (U)-Total | 0.000832 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Vanadium (V)-Total | 0.00205 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Zinc (Zn)-Total | 0.0055 | <T | 0.0030 | mg/L | | 15-FEB-22 | R5725076 |
| Zirconium (Zr)-Total | 0.000846 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-FEB-22 | R5722936 |
| Aluminum (Al)-Dissolved | 0.0300 | | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Antimony (Sb)-Dissolved | 0.000105 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725323 |
| Arsenic (As)-Dissolved | 0.00115 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Barium (Ba)-Dissolved | 0.0133 | | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Beryllium (Be)-Dissolved | 0.000018 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-9 SW23_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 13:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Bismuth (Bi)-Dissolved | 0.000016 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Boron (B)-Dissolved | 0.0115 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Cadmium (Cd)-Dissolved | 0.0000110 | <DL | 0.000017 | mg/L | | 15-FEB-22 | R5725323 |
| Calcium (Ca)-Dissolved | 47.4 | | 0.20 | mg/L | | 15-FEB-22 | R5725323 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 15-FEB-22 | R5725323 |
| Chromium (Cr)-Dissolved | 0.00032 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Cobalt (Co)-Dissolved | 0.000234 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725323 |
| Copper (Cu)-Dissolved | 0.00124 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Iron (Fe)-Dissolved | 0.913 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Lead (Pb)-Dissolved | 0.00016 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Lithium (Li)-Dissolved | 0.0054 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Magnesium (Mg)-Dissolved | 20.4 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Manganese (Mn)-Dissolved | 0.0665 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723759 |
| Molybdenum (Mo)-Dissolved | 0.000232 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Nickel (Ni)-Dissolved | 0.00210 | <T | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Phosphorus (P)-Dissolved | 0.060 | | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Potassium (K)-Dissolved | 1.87 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Rubidium (Rb)-Dissolved | 0.00144 | | 0.00020 | mg/L | | 15-FEB-22 | R5725323 |
| Selenium (Se)-Dissolved | 0.000205 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Silicon (Si)-Dissolved | 8.16 | | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Silver (Ag)-Dissolved | 0.0000050 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Sodium (Na)-Dissolved | 6.32 | | 0.10 | mg/L | | 15-FEB-22 | R5725323 |
| Strontium (Sr)-Dissolved | 0.109 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Sulfur (S)-Dissolved | 3.2 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Thallium (Tl)-Dissolved | 0.000018 | <DL | 0.00030 | mg/L | | 15-FEB-22 | R5725323 |
| Thorium (Th)-Dissolved | 0.00007 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Tin (Sn)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Titanium (Ti)-Dissolved | 0.00318 | | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Tungsten (W)-Dissolved | 0.000006 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Uranium (U)-Dissolved | 0.000814 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Vanadium (V)-Dissolved | 0.00076 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Zinc (Zn)-Dissolved | 0.0026 | <DL | 0.0030 | mg/L | | 15-FEB-22 | R5725323 |
| Zirconium (Zr)-Dissolved | 0.000618 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 11-FEB-22 | R5725476 |
| Chemical Oxygen Demand | 99 | | 10 | mg/L | 11-FEB-22 | 16-FEB-22 | R5725556 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 15-FEB-22 | 15-FEB-22 | R5723700 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0044 | | 0.0044 | Bq/L | 24-FEB-22 | 07-MAR-22 | R5730543 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2685225-10 SW24_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 13:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 5.69 | | 0 | mg/L | | 12-FEB-22 | R5721389 |
| pH, Client Supplied | 6.63 | | 0.10 | pH | | 12-FEB-22 | R5721389 |
| Temperature, Client Supplied | <0 | | 0 | Degree C | | 12-FEB-22 | R5721389 |
| Physical Tests | | | | | | | |
| Color, True | 131 | | 2.0 | CU | | 11-FEB-22 | R5721099 |
| Conductivity (EC) | 373 | | 1.0 | uS/cm | | 11-FEB-22 | R5721523 |
| Hardness (as CaCO3) | 208 | | 0.51 | mg/L | | 16-FEB-22 | |
| pH | 7.48 | | 0.10 | pH | | 11-FEB-22 | R5721523 |
| Total Suspended Solids | 13.0 | | 3.0 | mg/L | | 15-FEB-22 | R5725164 |
| Total Dissolved Solids | 270 | | 20 | mg/L | | 15-FEB-22 | R5725206 |
| Turbidity | 18.3 | | 0.10 | NTU | | 11-FEB-22 | R5721177 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 6.4 | | 2.0 | mg/L | | 12-FEB-22 | R5722036 |
| Alkalinity, Total (as CaCO3) | 196 | | 2.0 | mg/L | | 11-FEB-22 | R5721523 |
| Ammonia, Total (as N) | 0.046 | <T | 0.0050 | mg/L | | 11-FEB-22 | R5721097 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-FEB-22 | |
| Chloride (Cl) | 8.96 | | 0.10 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Fluoride (F) | 0.062 | | 0.020 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Nitrate (as N) | 0.046 | <T | 0.020 | mg/L | | 14-FEB-22 | R5723307 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-FEB-22 | R5723307 |
| Total Kjeldahl Nitrogen | 1.41 | | 0.050 | mg/L | 11-FEB-22 | 17-FEB-22 | R5727084 |
| Orthophosphate-Dissolved (as P) | 0.0496 | | 0.0030 | mg/L | 11-FEB-22 | 11-FEB-22 | R5723597 |
| Sulfate (SO4) | 7.75 | | 0.30 | mg/L | | 14-FEB-22 | R5723307 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Free | 0.0015 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 34.9 | DLM | 2.5 | mg/L | 16-FEB-22 | 16-FEB-22 | R5726517 |
| Total Organic Carbon | 35.7 | | 0.50 | mg/L | | 16-FEB-22 | R5726516 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.346 | | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Antimony (Sb)-Total | 0.000085 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725076 |
| Arsenic (As)-Total | 0.00129 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Barium (Ba)-Total | 0.0184 | | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Beryllium (Be)-Total | 0.0000292 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Boron (B)-Total | 0.0110 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Cadmium (Cd)-Total | 0.000020 | <T | 0.000017 | mg/L | | 15-FEB-22 | R5725076 |
| Calcium (Ca)-Total | 49.5 | | 0.20 | mg/L | | 15-FEB-22 | R5725076 |
| Cesium (Cs)-Total | 0.0000460 | | 0.000010 | mg/L | | 15-FEB-22 | R5725076 |
| Chromium (Cr)-Total | 0.00106 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-10 SW24_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 13:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Cobalt (Co)-Total | 0.000990 | <T | 0.00050 | mg/L | | 15-FEB-22 | R5725076 |
| Copper (Cu)-Total | 0.00156 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Iron (Fe)-Total | 1.68 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Lead (Pb)-Total | 0.00043 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Lithium (Li)-Total | 0.0058 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Magnesium (Mg)-Total | 21.0 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Manganese (Mn)-Total | 0.523 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723764 |
| Molybdenum (Mo)-Total | 0.000215 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Nickel (Ni)-Total | 0.00278 | <T | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Phosphorus (P)-Total | 0.075 | | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Potassium (K)-Total | 1.95 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Rubidium (Rb)-Total | 0.00223 | | 0.00020 | mg/L | | 15-FEB-22 | R5725076 |
| Selenium (Se)-Total | 0.000195 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Silicon (Si)-Total | 8.80 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Sodium (Na)-Total | 6.29 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Strontium (Sr)-Total | 0.112 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Sulfur (S)-Total | 3.2 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Tellurium (Te)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 15-FEB-22 | R5725076 |
| Thorium (Th)-Total | 0.00016 | | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Titanium (Ti)-Total | 0.0116 | | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Uranium (U)-Total | 0.000817 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Vanadium (V)-Total | 0.00170 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Zinc (Zn)-Total | 0.0055 | <T | 0.0030 | mg/L | | 15-FEB-22 | R5725076 |
| Zirconium (Zr)-Total | 0.000928 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-FEB-22 | R5722936 |
| Aluminum (Al)-Dissolved | 0.0310 | | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Antimony (Sb)-Dissolved | 0.000090 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725323 |
| Arsenic (As)-Dissolved | 0.00114 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Barium (Ba)-Dissolved | 0.0135 | | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Beryllium (Be)-Dissolved | 0.000020 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Bismuth (Bi)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Boron (B)-Dissolved | 0.0120 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Cadmium (Cd)-Dissolved | 0.0000100 | <DL | 0.000017 | mg/L | | 15-FEB-22 | R5725323 |
| Calcium (Ca)-Dissolved | 49.7 | | 0.20 | mg/L | | 15-FEB-22 | R5725323 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 15-FEB-22 | R5725323 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-10 SW24_SW_20220208 Sampled By: Client on 08-FEB-22 @ 13:15 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Chromium (Cr)-Dissolved | 0.00026 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Cobalt (Co)-Dissolved | 0.000310 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725323 |
| Copper (Cu)-Dissolved | 0.00120 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Iron (Fe)-Dissolved | 0.942 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Lead (Pb)-Dissolved | 0.00016 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Lithium (Li)-Dissolved | 0.0060 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Magnesium (Mg)-Dissolved | 20.3 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Manganese (Mn)-Dissolved | 0.134 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723759 |
| Molybdenum (Mo)-Dissolved | 0.000244 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Nickel (Ni)-Dissolved | 0.00218 | <T | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Phosphorus (P)-Dissolved | 0.055 | | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Potassium (K)-Dissolved | 1.85 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Rubidium (Rb)-Dissolved | 0.00150 | | 0.00020 | mg/L | | 15-FEB-22 | R5725323 |
| Selenium (Se)-Dissolved | 0.000205 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Silicon (Si)-Dissolved | 8.05 | | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Sodium (Na)-Dissolved | 6.32 | | 0.10 | mg/L | | 15-FEB-22 | R5725323 |
| Strontium (Sr)-Dissolved | 0.112 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Sulfur (S)-Dissolved | 3.0 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Thallium (Tl)-Dissolved | 0.000004 | <DL | 0.00030 | mg/L | | 15-FEB-22 | R5725323 |
| Thorium (Th)-Dissolved | 0.00007 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Titanium (Ti)-Dissolved | 0.00324 | | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Uranium (U)-Dissolved | 0.000800 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Vanadium (V)-Dissolved | 0.00076 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Zinc (Zn)-Dissolved | 0.0014 | <DL | 0.0030 | mg/L | | 15-FEB-22 | R5725323 |
| Zirconium (Zr)-Dissolved | 0.000666 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 11-FEB-22 | R5725476 |
| Chemical Oxygen Demand | 99 | | 10 | mg/L | 11-FEB-22 | 16-FEB-22 | R5725556 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 15-FEB-22 | 15-FEB-22 | R5723700 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0066 | | 0.0066 | Bq/L | 24-FEB-22 | 07-MAR-22 | R5730543 |
| L2685225-11 SW25_SW_20220208 Sampled By: Client on 08-FEB-22 @ 13:15 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 6.48 | | 0 | mg/L | | 12-FEB-22 | R5721389 |
| pH, Client Supplied | 7.24 | | 0.10 | pH | | 12-FEB-22 | R5721389 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2685225-11 SW25_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 13:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Temperature, Client Supplied | .51 | | 0 | Degree C | | 12-FEB-22 | R5721389 |
| Physical Tests | | | | | | | |
| Color, True | 121 | | 2.0 | CU | | 11-FEB-22 | R5721099 |
| Conductivity (EC) | 387 | | 1.0 | uS/cm | | 11-FEB-22 | R5721523 |
| Hardness (as CaCO3) | 208 | | 0.51 | mg/L | | 16-FEB-22 | |
| pH | 7.70 | | 0.10 | pH | | 11-FEB-22 | R5721523 |
| Total Suspended Solids | 12.0 | | 3.0 | mg/L | | 15-FEB-22 | R5725164 |
| Total Dissolved Solids | 264 | | 20 | mg/L | | 15-FEB-22 | R5725206 |
| Turbidity | 5.46 | | 0.10 | NTU | | 11-FEB-22 | R5721177 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.8 | <DL | 2.0 | mg/L | | 12-FEB-22 | R5722036 |
| Alkalinity, Total (as CaCO3) | 174 | | 2.0 | mg/L | | 11-FEB-22 | R5721523 |
| Ammonia, Total (as N) | 0.082 | <T | 0.0050 | mg/L | | 11-FEB-22 | R5721097 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-FEB-22 | |
| Chloride (Cl) | 19.6 | | 0.10 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Fluoride (F) | 0.087 | | 0.020 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Nitrate (as N) | 0.182 | <T | 0.020 | mg/L | | 14-FEB-22 | R5723307 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-FEB-22 | R5723307 |
| Total Kjeldahl Nitrogen | 1.64 | | 0.050 | mg/L | 11-FEB-22 | 17-FEB-22 | R5727084 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 11-FEB-22 | 11-FEB-22 | R5723597 |
| Sulfate (SO4) | 13.3 | | 0.30 | mg/L | | 14-FEB-22 | R5723307 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Free | 0.0010 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 33.6 | DLM | 2.5 | mg/L | 16-FEB-22 | 16-FEB-22 | R5726517 |
| Total Organic Carbon | 28.7 | | 0.50 | mg/L | | 16-FEB-22 | R5725404 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.259 | | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Antimony (Sb)-Total | 0.000090 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725076 |
| Arsenic (As)-Total | 0.00112 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Barium (Ba)-Total | 0.0266 | | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Beryllium (Be)-Total | 0.0000188 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Bismuth (Bi)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Boron (B)-Total | 0.0110 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Cadmium (Cd)-Total | 0.000018 | <T | 0.000017 | mg/L | | 15-FEB-22 | R5725076 |
| Calcium (Ca)-Total | 53.3 | | 0.20 | mg/L | | 15-FEB-22 | R5725076 |
| Cesium (Cs)-Total | 0.0000380 | | 0.000010 | mg/L | | 15-FEB-22 | R5725076 |
| Chromium (Cr)-Total | 0.00086 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Cobalt (Co)-Total | 0.000315 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725076 |
| Copper (Cu)-Total | 0.00342 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-11 SW25_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 13:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Iron (Fe)-Total | 0.580 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Lead (Pb)-Total | 0.00031 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Lithium (Li)-Total | 0.0048 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Magnesium (Mg)-Total | 19.4 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Manganese (Mn)-Total | 0.108 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723764 |
| Molybdenum (Mo)-Total | 0.000715 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Nickel (Ni)-Total | 0.00196 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Phosphorus (P)-Total | 0.035 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Potassium (K)-Total | 2.27 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Rubidium (Rb)-Total | 0.00203 | | 0.00020 | mg/L | | 15-FEB-22 | R5725076 |
| Selenium (Se)-Total | 0.000245 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Silicon (Si)-Total | 6.35 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Silver (Ag)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Sodium (Na)-Total | 5.91 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Strontium (Sr)-Total | 0.114 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Sulfur (S)-Total | 5.0 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Tellurium (Te)-Total | 0.00008 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 15-FEB-22 | R5725076 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Titanium (Ti)-Total | 0.00772 | | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Uranium (U)-Total | 0.00209 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Vanadium (V)-Total | 0.00120 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Zinc (Zn)-Total | 0.0135 | | 0.0030 | mg/L | | 15-FEB-22 | R5725076 |
| Zirconium (Zr)-Total | 0.000474 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-FEB-22 | R5722936 |
| Aluminum (Al)-Dissolved | 0.0180 | <T | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Antimony (Sb)-Dissolved | 0.000090 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725323 |
| Arsenic (As)-Dissolved | 0.000991 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Barium (Ba)-Dissolved | 0.0233 | | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Bismuth (Bi)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Boron (B)-Dissolved | 0.0115 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Cadmium (Cd)-Dissolved | 0.0000090 | <DL | 0.000017 | mg/L | | 15-FEB-22 | R5725323 |
| Calcium (Ca)-Dissolved | 51.9 | | 0.20 | mg/L | | 15-FEB-22 | R5725323 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 15-FEB-22 | R5725323 |
| Chromium (Cr)-Dissolved | 0.00025 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Cobalt (Co)-Dissolved | 0.000120 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725323 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2685225-11 SW25_SW_20220208 Sampled By: Client on 08-FEB-22 @ 13:15 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Copper (Cu)-Dissolved | 0.00266 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Iron (Fe)-Dissolved | 0.261 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Lithium (Li)-Dissolved | 0.0048 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Magnesium (Mg)-Dissolved | 19.0 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Manganese (Mn)-Dissolved | 0.0243 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723759 |
| Molybdenum (Mo)-Dissolved | 0.000726 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Nickel (Ni)-Dissolved | 0.00152 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Potassium (K)-Dissolved | 2.28 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Rubidium (Rb)-Dissolved | 0.00162 | | 0.00020 | mg/L | | 15-FEB-22 | R5725323 |
| Selenium (Se)-Dissolved | 0.000200 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Silicon (Si)-Dissolved | 5.88 | | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Sodium (Na)-Dissolved | 5.93 | | 0.10 | mg/L | | 15-FEB-22 | R5725323 |
| Strontium (Sr)-Dissolved | 0.112 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Sulfur (S)-Dissolved | 5.0 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Thallium (Tl)-Dissolved | 0.000004 | <DL | 0.00030 | mg/L | | 15-FEB-22 | R5725323 |
| Thorium (Th)-Dissolved | 0.00005 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Titanium (Ti)-Dissolved | 0.00164 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Uranium (U)-Dissolved | 0.00214 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Vanadium (V)-Dissolved | 0.00066 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Zinc (Zn)-Dissolved | 0.0088 | <T | 0.0030 | mg/L | | 15-FEB-22 | R5725323 |
| Zirconium (Zr)-Dissolved | 0.000398 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.6 | | 2.0 | mg/L | | 11-FEB-22 | R5725476 |
| Chemical Oxygen Demand | 95 | | 10 | mg/L | 11-FEB-22 | 16-FEB-22 | R5725556 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 15-FEB-22 | 15-FEB-22 | R5723700 |
| L2685225-12 SW26_SW_20220208 Sampled By: Client on 08-FEB-22 @ 12:40 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 8.61 | | 0 | mg/L | | 12-FEB-22 | R5721389 |
| pH, Client Supplied | 7.17 | | 0.10 | pH | | 12-FEB-22 | R5721389 |
| Temperature, Client Supplied | 1.29 | | 0 | Degree C | | 12-FEB-22 | R5721389 |
| Physical Tests | | | | | | | |
| Color, True | 86.4 | | 2.0 | CU | | 11-FEB-22 | R5721099 |
| Conductivity (EC) | 551 | | 1.0 | uS/cm | | 11-FEB-22 | R5721523 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-12 SW26_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 12:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Hardness (as CaCO3) | 304 | | 0.51 | mg/L | | 16-FEB-22 | |
| pH | 7.92 | | 0.10 | pH | | 11-FEB-22 | R5721523 |
| Total Suspended Solids | 9.5 | | 3.0 | mg/L | | 15-FEB-22 | R5725164 |
| Total Dissolved Solids | 326 | | 20 | mg/L | | 15-FEB-22 | R5725206 |
| Turbidity | 7.18 | | 0.10 | NTU | | 11-FEB-22 | R5721177 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.0 | | 2.0 | mg/L | | 12-FEB-22 | R5722036 |
| Alkalinity, Total (as CaCO3) | 279 | | 2.0 | mg/L | | 11-FEB-22 | R5721523 |
| Ammonia, Total (as N) | 0.108 | <T | 0.0050 | mg/L | | 11-FEB-22 | R5721097 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-FEB-22 | |
| Chloride (Cl) | 19.3 | | 0.10 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Fluoride (F) | 0.111 | | 0.020 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Nitrate (as N) | 0.170 | <T | 0.020 | mg/L | | 14-FEB-22 | R5723307 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-FEB-22 | R5723307 |
| Total Kjeldahl Nitrogen | 1.26 | | 0.050 | mg/L | 11-FEB-22 | 17-FEB-22 | R5727084 |
| Orthophosphate-Dissolved (as P) | 0.0068 | | 0.0030 | mg/L | 11-FEB-22 | 11-FEB-22 | R5723597 |
| Sulfate (SO4) | 19.4 | | 0.30 | mg/L | | 14-FEB-22 | R5723307 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Free | 0.0010 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 28.4 | DLM | 2.5 | mg/L | 16-FEB-22 | 16-FEB-22 | R5726517 |
| Total Organic Carbon | 26.3 | | 0.50 | mg/L | | 16-FEB-22 | R5726516 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.171 | | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Antimony (Sb)-Total | 0.000100 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725076 |
| Arsenic (As)-Total | 0.00193 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Barium (Ba)-Total | 0.0441 | | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Beryllium (Be)-Total | 0.0000125 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Boron (B)-Total | 0.0260 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Cadmium (Cd)-Total | 0.000017 | <T | 0.000017 | mg/L | | 15-FEB-22 | R5725076 |
| Calcium (Ca)-Total | 73.6 | | 0.20 | mg/L | | 15-FEB-22 | R5725076 |
| Cesium (Cs)-Total | 0.0000260 | | 0.000010 | mg/L | | 15-FEB-22 | R5725076 |
| Chromium (Cr)-Total | 0.00058 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Cobalt (Co)-Total | 0.000335 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725076 |
| Copper (Cu)-Total | 0.00546 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Iron (Fe)-Total | 0.596 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Lead (Pb)-Total | 0.00018 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Lithium (Li)-Total | 0.0140 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Magnesium (Mg)-Total | 31.7 | | 0.020 | mg/L | | 15-FEB-22 | R5725076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-12 SW26_SW_20220208 | | | | | | | |
| Sampled By: Client on 08-FEB-22 @ 12:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Manganese (Mn)-Total | 0.204 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723764 |
| Molybdenum (Mo)-Total | 0.00123 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Nickel (Ni)-Total | 0.00220 | <T | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Phosphorus (P)-Total | 0.020 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Potassium (K)-Total | 2.46 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Rubidium (Rb)-Total | 0.00233 | | 0.00020 | mg/L | | 15-FEB-22 | R5725076 |
| Selenium (Se)-Total | 0.000145 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Silicon (Si)-Total | 7.58 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Silver (Ag)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Sodium (Na)-Total | 7.91 | | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Strontium (Sr)-Total | 0.208 | | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Sulfur (S)-Total | 7.2 | | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 15-FEB-22 | R5725076 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Titanium (Ti)-Total | 0.00613 | | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Tungsten (W)-Total | 0.00001 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Uranium (U)-Total | 0.00361 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Vanadium (V)-Total | 0.00105 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Zinc (Zn)-Total | 0.105 | | 0.0030 | mg/L | | 15-FEB-22 | R5725076 |
| Zirconium (Zr)-Total | 0.000556 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 14-FEB-22 | R5722936 |
| Aluminum (Al)-Dissolved | 0.0160 | <T | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Antimony (Sb)-Dissolved | 0.000100 | <DL | 0.00060 | mg/L | | 15-FEB-22 | R5725323 |
| Arsenic (As)-Dissolved | 0.00163 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Barium (Ba)-Dissolved | 0.0429 | | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Bismuth (Bi)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Boron (B)-Dissolved | 0.0255 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Cadmium (Cd)-Dissolved | 0.0000140 | <DL | 0.000017 | mg/L | | 15-FEB-22 | R5725323 |
| Calcium (Ca)-Dissolved | 71.0 | | 0.20 | mg/L | | 15-FEB-22 | R5725323 |
| Cesium (Cs)-Dissolved | 0.0000050 | <DL | 0.000010 | mg/L | | 15-FEB-22 | R5725323 |
| Chromium (Cr)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Cobalt (Co)-Dissolved | 0.000222 | <DL | 0.00050 | mg/L | | 15-FEB-22 | R5725323 |
| Copper (Cu)-Dissolved | 0.00456 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Iron (Fe)-Dissolved | 0.277 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Lithium (Li)-Dissolved | 0.0134 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2685225-12 SW26_SW_20220208 Sampled By: Client on 08-FEB-22 @ 12:40 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Magnesium (Mg)-Dissolved | 30.7 | | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Manganese (Mn)-Dissolved | 0.167 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723759 |
| Molybdenum (Mo)-Dissolved | 0.00115 | <T | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Nickel (Ni)-Dissolved | 0.00188 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Potassium (K)-Dissolved | 2.43 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Rubidium (Rb)-Dissolved | 0.00192 | | 0.00020 | mg/L | | 15-FEB-22 | R5725323 |
| Selenium (Se)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Silicon (Si)-Dissolved | 7.13 | | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Sodium (Na)-Dissolved | 7.91 | | 0.10 | mg/L | | 15-FEB-22 | R5725323 |
| Strontium (Sr)-Dissolved | 0.200 | | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Sulfur (S)-Dissolved | 7.2 | | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.00030 | mg/L | | 15-FEB-22 | R5725323 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Titanium (Ti)-Dissolved | 0.00172 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Uranium (U)-Dissolved | 0.00360 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Vanadium (V)-Dissolved | 0.00058 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Zinc (Zn)-Dissolved | 0.0946 | | 0.0030 | mg/L | | 15-FEB-22 | R5725323 |
| Zirconium (Zr)-Dissolved | 0.000446 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 11-FEB-22 | R5725476 |
| Chemical Oxygen Demand | 73 | | 10 | mg/L | 11-FEB-22 | 16-FEB-22 | R5725556 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 15-FEB-22 | 15-FEB-22 | R5723700 |
| L2685225-13 TB_SW_20220208 Sampled By: Client on 10-FEB-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 11-FEB-22 | R5721099 |
| Conductivity (EC) | 0.2 | <DL | 1.0 | uS/cm | | 11-FEB-22 | R5721523 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 16-FEB-22 | |
| pH | 5.51 | | 0.10 | pH | | 11-FEB-22 | R5721523 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 15-FEB-22 | R5725288 |
| Total Dissolved Solids | 2 | <DL | 10 | mg/L | | 15-FEB-22 | R5725301 |
| Turbidity | <0.10 | | 0.10 | NTU | | 12-FEB-22 | R5721525 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 12-FEB-22 | R5722036 |
| Alkalinity, Total (as CaCO3) | 0.4 | <DL | 2.0 | mg/L | | 11-FEB-22 | R5721523 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2685225-13 TB_SW_20220208 Sampled By: Client on 10-FEB-22 @ 12:00 Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 11-FEB-22 | R5721097 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Fluoride (F) | 0.035 | | 0.020 | mg/L | 11-FEB-22 | 14-FEB-22 | R5723307 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 14-FEB-22 | R5723307 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-FEB-22 | R5723307 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 11-FEB-22 | 17-FEB-22 | R5727084 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 11-FEB-22 | 11-FEB-22 | R5723597 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 14-FEB-22 | R5723307 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0002 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 14-FEB-22 | R5723843 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 16-FEB-22 | 16-FEB-22 | R5726517 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 16-FEB-22 | R5726516 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0002 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00060 | mg/L | | 15-FEB-22 | R5725076 |
| Arsenic (As)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Barium (Ba)-Total | 0.00002 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Beryllium (Be)-Total | 0.0000010 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 15-FEB-22 | R5725076 |
| Calcium (Ca)-Total | <0.002 | <W | 0.20 | mg/L | | 15-FEB-22 | R5725076 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 15-FEB-22 | R5725076 |
| Chromium (Cr)-Total | 0.00012 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 15-FEB-22 | R5725076 |
| Copper (Cu)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Iron (Fe)-Total | <0.0005 | <W | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Lead (Pb)-Total | <0.00001 | <W | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Magnesium (Mg)-Total | 0.0012 | <DL | 0.020 | mg/L | | 15-FEB-22 | R5725076 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723764 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Nickel (Ni)-Total | 0.00002 | <DL | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Phosphorus (P)-Total | 0.005 | <DL | 0.050 | mg/L | | 15-FEB-22 | R5725076 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Rubidium (Rb)-Total | 0.000002 | <DL | 0.00020 | mg/L | | 15-FEB-22 | R5725076 |
| Selenium (Se)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 15-FEB-22 | R5725076 |
| Silicon (Si)-Total | <0.002 | <W | 0.10 | mg/L | | 15-FEB-22 | R5725076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2685225-13 TB_SW_20220208 | | | | | | | |
| Sampled By: Client on 10-FEB-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Sodium (Na)-Total | <0.005 | <W | 0.10 | mg/L | | 15-FEB-22 | R5725076 |
| Strontium (Sr)-Total | 0.000010 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 15-FEB-22 | R5725076 |
| Tellurium (Te)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725076 |
| Thorium (Th)-Total | 0.00001 | <DL | 0.00010 | mg/L | | 15-FEB-22 | R5725076 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Titanium (Ti)-Total | <0.00001 | <W | 0.0020 | mg/L | | 15-FEB-22 | R5725076 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 15-FEB-22 | R5725076 |
| Uranium (U)-Total | 0.0000010 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725076 |
| Vanadium (V)-Total | <0.00005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Zinc (Zn)-Total | <0.0005 | <W | 0.0030 | mg/L | | 15-FEB-22 | R5725076 |
| Zirconium (Zr)-Total | 0.000006 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725076 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 14-FEB-22 | R5722936 |
| Aluminum (Al)-Dissolved | 0.0004 | <DL | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 15-FEB-22 | R5725323 |
| Arsenic (As)-Dissolved | <0.0000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Barium (Ba)-Dissolved | 0.000005 | <DL | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Boron (B)-Dissolved | <0.0005 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 15-FEB-22 | R5725323 |
| Calcium (Ca)-Dissolved | <0.002 | <W | 0.20 | mg/L | | 15-FEB-22 | R5725323 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 15-FEB-22 | R5725323 |
| Chromium (Cr)-Dissolved | 0.00009 | <DL | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 15-FEB-22 | R5725323 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Iron (Fe)-Dissolved | 0.0005 | <DL | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Magnesium (Mg)-Dissolved | 0.0010 | <DL | 0.020 | mg/L | | 15-FEB-22 | R5725323 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-FEB-22 | R5723759 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 15-FEB-22 | R5725323 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 15-FEB-22 | R5725323 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|---------|-------|-----------|-----------|----------|
| L2685225-13 TB_SW_20220208 Sampled By: Client on 10-FEB-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Silicon (Si)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 15-FEB-22 | R5725323 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Sodium (Na)-Dissolved | <0.005 | <W | 0.10 | mg/L | | 15-FEB-22 | R5725323 |
| Strontium (Sr)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 15-FEB-22 | R5725323 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-FEB-22 | R5725323 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 15-FEB-22 | R5725323 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 15-FEB-22 | R5725323 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 15-FEB-22 | R5725323 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.0050 | mg/L | | 15-FEB-22 | R5725323 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 15-FEB-22 | R5725323 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-FEB-22 | R5725323 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 11-FEB-22 | R5725476 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 11-FEB-22 | 16-FEB-22 | R5725556 |
| Oil and Grease, Total | 1.4 | | 1.0 | mg/L | 15-FEB-22 | 15-FEB-22 | R5723700 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------|--------------------------|-----------|--|
| Method Blank | Total Kjeldahl Nitrogen | B | L2685225-11, -12, -13 |
| Matrix Spike | Calcium (Ca)-Dissolved | MS-B | L2685225-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Dissolved | MS-B | L2685225-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Dissolved | MS-B | L2685225-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Dissolved | MS-B | L2685225-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Barium (Ba)-Total | MS-B | L2685225-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Total | MS-B | L2685225-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Total | MS-B | L2685225-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Manganese (Mn)-Total | MS-B | L2685225-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Total | MS-B | L2685225-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Total | MS-B | L2685225-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Total Kjeldahl Nitrogen | MS-B | L2685225-1, -10, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Total Organic Carbon | MS-B | L2685225-1, -2, -3, -4, -5, -6 |
| Matrix Spike | Total Organic Carbon | MS-B | L2685225-8 |
| Matrix Spike | Total Organic Carbon | MS-B | L2685225-10, -12, -13, -7, -9 |
| Matrix Spike | Total Organic Carbon | MS-B | L2685225-11 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|--|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| B | Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable. |
| DLM | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|----------|---|--|
| ACY-MISA-TB | Effluent | Acidity (as CaCO ₃) | APHA 2310 B-POTENTIOMETRIC TITRATION |
| Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample. | | | |
| ALK-MISA-TB | Effluent | Alkalinity, Total (as CaCO ₃) | APHA 2320 B-Auto-Pot. Titration |
| This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. | | | |
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
| All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation. | | | |
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
| This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis. | | | |
| CN-T-MISA-CFA-WT | Effluent | Total Cyanide by CFA | ISO 14403-2:2012 (modified) |
| This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. | | | |
| Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero. | | | |
| CN-WAD-MISA-CFA-WT | Effluent | Weak Acid Dissociable Cyanide by CFA | APHA 4500-CN CYANIDE (modified) |
| This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis. | | | |

Reference Information

| | | | |
|--|----------|-----------------------------------|--|
| COD-TB | Water | Chemical Oxygen Demand | APHA 5220D |
| This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method. | | | |
| COLOUR-TB | Water | Colour, True | APHA 2120 C |
| True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard. | | | |
| DO-CLIENT-TB | Water | Dissolved Oxygen, Client Supplied | Result supplied by Client |
| DOC-WT | Effluent | Dissolved Organic Carbon for MISA | APHA 5310 B-Instrumental |
| EC-MISA-TB | Effluent | Conductivity (EC) | APHA 2510 B-ELECTRODE |
| This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode. | | | |
| F-IC-N-TB | Water | Fluoride in Water by IC | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| HARDNESS-CALC-TB | Effluent | Hardness (as CaCO ₃) | CALCULATION |
| HG-DIS-WT | Effluent | Mercury (Hg)-Dissolved for MISA | SW846 7470A |
| HG-TOT-WT | Effluent | Mercury (Hg)-Total for MISA | SW846 7470A |
| MET-D-MISA-TB | Effluent | Dissolved Metals in Water (MISA) | APHA 3030B/6020B (mod) |
| Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS. | | | |
| Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method. | | | |
| MET-T-MISA-TB | Effluent | Total Metals in Water (MISA) | EPA 200.2/6020B (mod) |
| Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS. | | | |
| Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method. | | | |
| NH3-MISA-F-TB | Effluent | Ammonia by Discrete Analyzer | catnr 157/158 062217/99321057 (modified) |
| Ammonia is determined by Flow-injection analysis with fluorescence detection | | | |
| NH3-UNION-CALC-TB | Effluent | Un-ionized ammonia | Calculation |
| NO2-MISA-IC-TB | Effluent | Nitrite in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| NO3-MISA-IC-TB | Effluent | Nitrate in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| OGG-TOT-WT | Effluent | Oil and Grease, Total for MISA | APHA 5520 B-Hexane Gravimetric |
| PH-CLIENT-TB | Water | pH | Result supplied by Client |
| PH-MISA-TB | Effluent | pH | APHA 4500-H-ELECTRODE |
| This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode | | | |
| PO4-DO-COL-TB | Water | Dissolved Orthophosphate | APHA 4500-P B, F, G (modified) |
| Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection. | | | |
| RA226-MMER-FC | Water | Ra226 by Alpha Scint, MDC=0.01 | EPA 903.1 |

Reference Information

Bq/L

| | | | |
|--|----------|------------------------------|--------------------------------|
| SO4-MISA-IC-TB | Effluent | Sulfate in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| TDS-MISA-TB | Effluent | Total Dissolved Solids | APHA 2540 C (modified) |
| Aqueous matrices are analyzed using gravimetry and evaporation | | | |
| TEMP-CLIENT-TB | Water | Temperature | Result supplied by Client |
| TKN-F-TB | Water | TKN in Water by Fluorescence | catnr 157/158, 062818/99334821 |
| Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection | | | |
| TOC-WT | Water | Total Organic Carbon | APHA 5310B |
| Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector. | | | |
| TSS-MISA-TB | Effluent | Total Suspended Solids | APHA 2540 D (modified) |
| Aqueous matrices are analyzed using gravimetry | | | |
| TURBIDITY-TB | Water | Turbidity | APHA 2130 B-Nephelometer |
| Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle. | | | |

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |
| FC | ALS ENVIRONMENTAL - FORT COLLINS, COLORADO, USA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

Page 1 of 22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| BOD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5725476 | | | | | | | |
| WG3695137-8 | DUP | L2685225-9 | | | | | | |
| Biochemical Oxygen Demand | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 30 | 11-FEB-22 |
| WG3695137-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 103.9 | | % | | 85-115 | 11-FEB-22 |
| WG3695137-6 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 108.9 | | % | | 85-115 | 11-FEB-22 |
| WG3695137-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 11-FEB-22 |
| WG3695137-5 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 11-FEB-22 |
| CL-L-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5723307 | | | | | | | |
| WG3695326-3 | DUP | L2685197-1 | | | | | | |
| Chloride (Cl) | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 20 | 14-FEB-22 |
| WG3695326-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 99.9 | | % | | 90-110 | 14-FEB-22 |
| WG3695326-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 14-FEB-22 |
| WG3695326-4 | MS | L2685197-2 | | | | | | |
| Chloride (Cl) | | | 99.5 | | % | | 75-125 | 14-FEB-22 |
| COD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5725556 | | | | | | | |
| WG3695141-3 | DUP | L2684929-2 | | | | | | |
| Chemical Oxygen Demand | | 44 | 43 | | mg/L | 2.1 | 20 | 16-FEB-22 |
| WG3695141-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 105.8 | | % | | 85-115 | 16-FEB-22 |
| WG3695141-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 16-FEB-22 |
| WG3695141-4 | MS | L2684929-3 | | | | | | |
| Chemical Oxygen Demand | | | 100.1 | | % | | 75-125 | 16-FEB-22 |
| COLOUR-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5721099 | | | | | | | |
| WG3695323-3 | DUP | L2685225-1 | | | | | | |
| Color, True | | <2.0 | <2.0 | RPD-NA | CU | N/A | 20 | 11-FEB-22 |
| WG3695323-2 | LCS | | | | | | | |
| Color, True | | | 100.3 | | % | | 85-115 | 11-FEB-22 |
| WG3695323-1 | MB | | | | | | | |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|----------|--------------|---------|-----------|-------|-----|--------|-----------|
| COLOUR-TB | | Water | | | | | | |
| Batch | R5721099 | | | | | | | |
| WG3695323-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 11-FEB-22 |
| F-IC-N-TB | | Water | | | | | | |
| Batch | R5723307 | | | | | | | |
| WG3695326-3 | DUP | L2685197-1 | | | | | | |
| Fluoride (F) | | <0.020 | <0.020 | RPD-NA | mg/L | N/A | 20 | 14-FEB-22 |
| WG3695326-2 | LCS | | | | | | | |
| Fluoride (F) | | | 103.0 | | % | | 90-110 | 14-FEB-22 |
| WG3695326-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 14-FEB-22 |
| WG3695326-4 | MS | L2685197-2 | | | | | | |
| Fluoride (F) | | | 107.2 | | % | | 75-125 | 14-FEB-22 |
| PO4-DO-COL-TB | | Water | | | | | | |
| Batch | R5723597 | | | | | | | |
| WG3695325-3 | DUP | L2685225-2 | | | | | | |
| Orthophosphate-Dissolved (as P) | | <0.0030 | <0.0030 | RPD-NA | mg/L | N/A | 20 | 11-FEB-22 |
| WG3695325-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 98.9 | | % | | 80-120 | 11-FEB-22 |
| WG3695325-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0030 | | mg/L | | 0.003 | 11-FEB-22 |
| WG3695325-4 | MS | L2685225-3 | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 90.5 | | % | | 70-130 | 11-FEB-22 |
| TKN-F-TB | | Water | | | | | | |
| Batch | R5727084 | | | | | | | |
| WG3695273-3 | DUP | L2685225-11 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.64 | 1.52 | | mg/L | 7.3 | 20 | 17-FEB-22 |
| WG3695138-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 100.6 | | % | | 75-125 | 17-FEB-22 |
| WG3695273-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 98.6 | | % | | 75-125 | 17-FEB-22 |
| WG3695138-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 17-FEB-22 |
| WG3695273-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | 0.104 | B | mg/L | | 0.05 | 17-FEB-22 |
| WG3695138-4 | MS | L2684884-1 | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 17-FEB-22 |
| WG3695273-4 | MS | L2685225-12 | | | | | | |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------------------|----------|-------------|---------|-----------|-------|-----|--------|-----------|
| CN-FREE-MISA-CFA-WT Effluent | | | | | | | | |
| Batch | R5723843 | | | | | | | |
| WG3695879-1 | MB | | | | | | | |
| Cyanide, Free | | | 0.0004 | | mg/L | | 0.002 | 14-FEB-22 |
| WG3695879-4 | MS | L2684667-1 | | | | | | |
| Cyanide, Free | | | 110.0 | | % | | 75-125 | 14-FEB-22 |
| CN-T-MISA-CFA-WT Effluent | | | | | | | | |
| Batch | R5723843 | | | | | | | |
| WG3695879-3 | DUP | L2684667-1 | | | | | | |
| Cyanide, Total | | 0.0066 | 0.0072 | | mg/L | 8.9 | 20 | 14-FEB-22 |
| WG3695879-2 | LCS | | | | | | | |
| Cyanide, Total | | | 97.2 | | % | | 80-120 | 14-FEB-22 |
| WG3695879-1 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 14-FEB-22 |
| WG3695879-4 | MS | L2684667-1 | | | | | | |
| Cyanide, Total | | | 91.6 | | % | | 75-125 | 14-FEB-22 |
| CN-WAD-MISA-CFA-WT Effluent | | | | | | | | |
| Batch | R5723843 | | | | | | | |
| WG3695879-2 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 107.4 | | % | | 80-120 | 14-FEB-22 |
| WG3695879-1 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 14-FEB-22 |
| DOC-WT Effluent | | | | | | | | |
| Batch | R5726517 | | | | | | | |
| WG3696667-3 | DUP | WG3696667-5 | | | | | | |
| Dissolved Organic Carbon | | 53.8 | 55.4 | | mg/L | 2.8 | 25 | 16-FEB-22 |
| WG3696667-2 | LCS | | | | | | | |
| Dissolved Organic Carbon | | | 104.5 | | % | | 70-130 | 16-FEB-22 |
| WG3696667-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 16-FEB-22 |
| EC-MISA-TB Effluent | | | | | | | | |
| Batch | R5721523 | | | | | | | |
| WG3695313-2 | LCS | | | | | | | |
| Conductivity (EC) | | | 103.4 | | % | | 90-110 | 11-FEB-22 |
| WG3695313-1 | MB | | | | | | | |
| Conductivity (EC) | | | 0.2 | | uS/cm | | 2 | 11-FEB-22 |
| HG-DIS-WT Effluent | | | | | | | | |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|------------|-------------------|-----------|-----------|-------|-----|---------|-----------|
| HG-DIS-WT | | Effluent | | | | | | |
| Batch R5723759 | | | | | | | | |
| WG3695840-3 | DUP | L2685225-1 | | | | | | |
| Mercury (Hg)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| WG3695840-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 98.4 | | % | | 80-120 | 15-FEB-22 |
| WG3695840-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.00003 | 15-FEB-22 |
| WG3695840-4 | MS | L2685225-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 93.9 | | % | | 70-130 | 15-FEB-22 |
| HG-TOT-WT | | Effluent | | | | | | |
| Batch R5723764 | | | | | | | | |
| WG3695844-3 | DUP | L2685225-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| WG3695844-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 101.0 | | % | | 80-120 | 15-FEB-22 |
| WG3695844-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.00003 | 15-FEB-22 |
| WG3695844-4 | MS | L2685225-2 | | | | | | |
| Mercury (Hg)-Total | | | 93.1 | | % | | 70-130 | 15-FEB-22 |
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch R5725323 | | | | | | | | |
| WG3695922-3 | DUP | L2685225-7 | | | | | | |
| Aluminum (Al)-Dissolved | | 0.0170 | 0.0158 | | mg/L | 6.9 | 20 | 15-FEB-22 |
| Antimony (Sb)-Dissolved | | 0.000040 | 0.000040 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Arsenic (As)-Dissolved | | 0.000386 | 0.000380 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Barium (Ba)-Dissolved | | 0.00997 | 0.00996 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Beryllium (Be)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Bismuth (Bi)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Boron (B)-Dissolved | | 0.0045 | 0.0045 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Cadmium (Cd)-Dissolved | | 0.0000050 | 0.0000060 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Calcium (Ca)-Dissolved | | 9.82 | 9.84 | | mg/L | 0.1 | 20 | 15-FEB-22 |
| Cesium (Cs)-Dissolved | | 0.0000020 | 0.0000020 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Chromium (Cr)-Dissolved | | 0.00015 | 0.00016 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Cobalt (Co)-Dissolved | | 0.000018 | 0.000018 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Copper (Cu)-Dissolved | | 0.00084 | 0.00082 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Iron (Fe)-Dissolved | | 0.0525 | 0.0525 | | mg/L | 0.1 | 20 | 15-FEB-22 |
| Lead (Pb)-Dissolved | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5725323 | | | | | | | |
| WG3695922-3 | DUP | L2685225-7 | | | | | | |
| Lithium (Li)-Dissolved | | 0.0008 | 0.0008 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Magnesium (Mg)-Dissolved | | 3.07 | 3.05 | | mg/L | 0.7 | 20 | 15-FEB-22 |
| Manganese (Mn)-Dissolved | | 0.00314 | 0.00316 | | mg/L | 0.4 | 20 | 15-FEB-22 |
| Molybdenum (Mo)-Dissolved | | 0.000196 | 0.000196 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Nickel (Ni)-Dissolved | | 0.00054 | 0.00052 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Phosphorus (P)-Dissolved | | <0.005 | <0.005 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Potassium (K)-Dissolved | | 1.04 | 1.03 | | mg/L | 1.0 | 20 | 15-FEB-22 |
| Rubidium (Rb)-Dissolved | | 0.00181 | 0.00189 | | mg/L | 4.3 | 20 | 15-FEB-22 |
| Selenium (Se)-Dissolved | | 0.000105 | 0.000105 | | mg/L | 2.0 | 20 | 15-FEB-22 |
| Silicon (Si)-Dissolved | | 2.00 | 1.99 | | mg/L | 0.4 | 20 | 15-FEB-22 |
| Silver (Ag)-Dissolved | | 0.0000010 | 0.0000010 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Sodium (Na)-Dissolved | | 4.54 | 4.44 | | mg/L | 2.2 | 20 | 15-FEB-22 |
| Strontium (Sr)-Dissolved | | 0.0274 | 0.0282 | | mg/L | 2.8 | 20 | 15-FEB-22 |
| Sulfur (S)-Dissolved | | 1.8 | 1.8 | | mg/L | 4.4 | 20 | 15-FEB-22 |
| Tellurium (Te)-Dissolved | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Thallium (Tl)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Thorium (Th)-Dissolved | | 0.00002 | 0.00001 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Tin (Sn)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Titanium (Ti)-Dissolved | | 0.00042 | 0.00044 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Tungsten (W)-Dissolved | | <0.000002 | 0.000002 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Uranium (U)-Dissolved | | 0.0000730 | 0.0000700 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Vanadium (V)-Dissolved | | 0.00020 | 0.00022 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Zinc (Zn)-Dissolved | | 0.0014 | 0.0012 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Zirconium (Zr)-Dissolved | | 0.000092 | 0.000090 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| WG3695922-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 101.9 | | % | | 80-120 | 15-FEB-22 |
| Antimony (Sb)-Dissolved | | | 105.5 | | % | | 80-120 | 15-FEB-22 |
| Arsenic (As)-Dissolved | | | 105.5 | | % | | 80-120 | 15-FEB-22 |
| Barium (Ba)-Dissolved | | | 104.4 | | % | | 80-120 | 15-FEB-22 |
| Beryllium (Be)-Dissolved | | | 97.9 | | % | | 80-120 | 15-FEB-22 |
| Bismuth (Bi)-Dissolved | | | 99.4 | | % | | 80-120 | 15-FEB-22 |
| Boron (B)-Dissolved | | | 96.8 | | % | | 80-120 | 15-FEB-22 |
| Cadmium (Cd)-Dissolved | | | 100.0 | | % | | 80-120 | 15-FEB-22 |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5725323 | | | | | | | |
| WG3695922-2 | LCS | | | | | | | |
| Calcium (Ca)-Dissolved | | | 99.0 | | % | | 80-120 | 15-FEB-22 |
| Cesium (Cs)-Dissolved | | | 100.0 | | % | | 80-120 | 15-FEB-22 |
| Chromium (Cr)-Dissolved | | | 100.6 | | % | | 80-120 | 15-FEB-22 |
| Cobalt (Co)-Dissolved | | | 100.7 | | % | | 80-120 | 15-FEB-22 |
| Copper (Cu)-Dissolved | | | 101.0 | | % | | 80-120 | 15-FEB-22 |
| Iron (Fe)-Dissolved | | | 106.6 | | % | | 80-120 | 15-FEB-22 |
| Lead (Pb)-Dissolved | | | 100.7 | | % | | 80-120 | 15-FEB-22 |
| Lithium (Li)-Dissolved | | | 94.6 | | % | | 80-120 | 15-FEB-22 |
| Magnesium (Mg)-Dissolved | | | 104.7 | | % | | 80-120 | 15-FEB-22 |
| Manganese (Mn)-Dissolved | | | 101.3 | | % | | 80-120 | 15-FEB-22 |
| Molybdenum (Mo)-Dissolved | | | 102.6 | | % | | 80-120 | 15-FEB-22 |
| Nickel (Ni)-Dissolved | | | 100.2 | | % | | 80-120 | 15-FEB-22 |
| Phosphorus (P)-Dissolved | | | 110.0 | | % | | 70-130 | 15-FEB-22 |
| Potassium (K)-Dissolved | | | 104.2 | | % | | 80-120 | 15-FEB-22 |
| Rubidium (Rb)-Dissolved | | | 102.4 | | % | | 80-120 | 15-FEB-22 |
| Selenium (Se)-Dissolved | | | 104.7 | | % | | 80-120 | 15-FEB-22 |
| Silicon (Si)-Dissolved | | | 101.6 | | % | | 60-140 | 15-FEB-22 |
| Silver (Ag)-Dissolved | | | 92.2 | | % | | 80-120 | 15-FEB-22 |
| Sodium (Na)-Dissolved | | | 102.7 | | % | | 80-120 | 15-FEB-22 |
| Strontium (Sr)-Dissolved | | | 96.9 | | % | | 80-120 | 15-FEB-22 |
| Sulfur (S)-Dissolved | | | 91.4 | | % | | 80-120 | 15-FEB-22 |
| Tellurium (Te)-Dissolved | | | 101.8 | | % | | 80-120 | 15-FEB-22 |
| Thallium (Tl)-Dissolved | | | 102.0 | | % | | 80-120 | 15-FEB-22 |
| Thorium (Th)-Dissolved | | | 98.6 | | % | | 80-120 | 15-FEB-22 |
| Tin (Sn)-Dissolved | | | 102.3 | | % | | 80-120 | 15-FEB-22 |
| Titanium (Ti)-Dissolved | | | 102.6 | | % | | 80-120 | 15-FEB-22 |
| Tungsten (W)-Dissolved | | | 101.8 | | % | | 80-120 | 15-FEB-22 |
| Uranium (U)-Dissolved | | | 101.1 | | % | | 80-120 | 15-FEB-22 |
| Vanadium (V)-Dissolved | | | 102.0 | | % | | 80-120 | 15-FEB-22 |
| Zinc (Zn)-Dissolved | | | 97.8 | | % | | 80-120 | 15-FEB-22 |
| Zirconium (Zr)-Dissolved | | | 100.8 | | % | | 80-120 | 15-FEB-22 |
| WG3695922-1 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0002 | | mg/L | | 0.005 | 15-FEB-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 15-FEB-22 |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5725323 | | | | | | | |
| WG3695922-1 | MB | | | | | | | |
| Arsenic (As)-Dissolved | | | <0.0000002 | | mg/L | | 0.001 | 15-FEB-22 |
| Barium (Ba)-Dissolved | | | <0.000005 | | mg/L | | 0.01 | 15-FEB-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-FEB-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-FEB-22 |
| Boron (B)-Dissolved | | | <0.0005 | | mg/L | | 0.05 | 15-FEB-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000005 | | mg/L | | 0.000017 | 15-FEB-22 |
| Calcium (Ca)-Dissolved | | | 0.006 | | mg/L | | 0.2 | 15-FEB-22 |
| Cesium (Cs)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 15-FEB-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 15-FEB-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 15-FEB-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-FEB-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 15-FEB-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 15-FEB-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 15-FEB-22 |
| Magnesium (Mg)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 15-FEB-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-FEB-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-FEB-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 15-FEB-22 |
| Phosphorus (P)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 15-FEB-22 |
| Potassium (K)-Dissolved | | | <0.01 | | mg/L | | 0.5 | 15-FEB-22 |
| Rubidium (Rb)-Dissolved | | | <0.000002 | | mg/L | | 0.0002 | 15-FEB-22 |
| Selenium (Se)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 15-FEB-22 |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 15-FEB-22 |
| Silver (Ag)-Dissolved | | | <0.0000005 | | mg/L | | 0.0001 | 15-FEB-22 |
| Sodium (Na)-Dissolved | | | <0.005 | | mg/L | | 0.1 | 15-FEB-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-FEB-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 15-FEB-22 |
| Tellurium (Te)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 15-FEB-22 |
| Thallium (Tl)-Dissolved | | | <0.000002 | | mg/L | | 0.0003 | 15-FEB-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 15-FEB-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 15-FEB-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 15-FEB-22 |
| Tungsten (W)-Dissolved | | | <0.000002 | | mg/L | | 0.01 | 15-FEB-22 |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5725323 | | | | | | | |
| WG3695922-1 | MB | | | | | | | |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.005 | 15-FEB-22 |
| Vanadium (V)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-FEB-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.003 | 15-FEB-22 |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-FEB-22 |
| WG3695922-5 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0002 | | mg/L | | 0.005 | 15-FEB-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 15-FEB-22 |
| Arsenic (As)-Dissolved | | | <0.0000002 | | mg/L | | 0.001 | 15-FEB-22 |
| Barium (Ba)-Dissolved | | | <0.000005 | | mg/L | | 0.01 | 15-FEB-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-FEB-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-FEB-22 |
| Boron (B)-Dissolved | | | <0.0005 | | mg/L | | 0.05 | 15-FEB-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000005 | | mg/L | | 0.000017 | 15-FEB-22 |
| Calcium (Ca)-Dissolved | | | 0.004 | | mg/L | | 0.2 | 15-FEB-22 |
| Cesium (Cs)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 15-FEB-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 15-FEB-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 15-FEB-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-FEB-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 15-FEB-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 15-FEB-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 15-FEB-22 |
| Magnesium (Mg)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 15-FEB-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-FEB-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-FEB-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 15-FEB-22 |
| Phosphorus (P)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 15-FEB-22 |
| Potassium (K)-Dissolved | | | <0.01 | | mg/L | | 0.5 | 15-FEB-22 |
| Rubidium (Rb)-Dissolved | | | <0.000002 | | mg/L | | 0.0002 | 15-FEB-22 |
| Selenium (Se)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 15-FEB-22 |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 15-FEB-22 |
| Silver (Ag)-Dissolved | | | <0.0000005 | | mg/L | | 0.0001 | 15-FEB-22 |
| Sodium (Na)-Dissolved | | | <0.005 | | mg/L | | 0.1 | 15-FEB-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-FEB-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 15-FEB-22 |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|------------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | Effluent | | | | | | | |
| Batch | R5725323 | | | | | | | |
| WG3695922-5 MB | | | | | | | | |
| Tellurium (Te)-Dissolved | | | 0.00003 | | mg/L | | 0.001 | 15-FEB-22 |
| Thallium (Tl)-Dissolved | | | <0.000002 | | mg/L | | 0.0003 | 15-FEB-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 15-FEB-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 15-FEB-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 15-FEB-22 |
| Tungsten (W)-Dissolved | | | <0.000002 | | mg/L | | 0.01 | 15-FEB-22 |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.005 | 15-FEB-22 |
| Vanadium (V)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-FEB-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.003 | 15-FEB-22 |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-FEB-22 |
| WG3695922-4 MS | | L2685225-8 | | | | | | |
| Aluminum (Al)-Dissolved | | | 101.7 | | % | | 70-130 | 15-FEB-22 |
| Antimony (Sb)-Dissolved | | | 103.9 | | % | | 70-130 | 15-FEB-22 |
| Arsenic (As)-Dissolved | | | 105.3 | | % | | 70-130 | 15-FEB-22 |
| Barium (Ba)-Dissolved | | | 102.5 | | % | | 70-130 | 15-FEB-22 |
| Beryllium (Be)-Dissolved | | | 103.6 | | % | | 70-130 | 15-FEB-22 |
| Bismuth (Bi)-Dissolved | | | 94.1 | | % | | 70-130 | 15-FEB-22 |
| Boron (B)-Dissolved | | | 101.1 | | % | | 70-130 | 15-FEB-22 |
| Cadmium (Cd)-Dissolved | | | 103.9 | | % | | 70-130 | 15-FEB-22 |
| Calcium (Ca)-Dissolved | | | N/A | MS-B | % | | - | 15-FEB-22 |
| Cesium (Cs)-Dissolved | | | 104.3 | | % | | 70-130 | 15-FEB-22 |
| Chromium (Cr)-Dissolved | | | 102.1 | | % | | 70-130 | 15-FEB-22 |
| Cobalt (Co)-Dissolved | | | 102.2 | | % | | 70-130 | 15-FEB-22 |
| Copper (Cu)-Dissolved | | | 101.5 | | % | | 70-130 | 15-FEB-22 |
| Iron (Fe)-Dissolved | | | 102.2 | | % | | 70-130 | 15-FEB-22 |
| Lead (Pb)-Dissolved | | | 101.0 | | % | | 70-130 | 15-FEB-22 |
| Lithium (Li)-Dissolved | | | 101.7 | | % | | 70-130 | 15-FEB-22 |
| Magnesium (Mg)-Dissolved | | | N/A | MS-B | % | | - | 15-FEB-22 |
| Manganese (Mn)-Dissolved | | | 101.2 | | % | | 70-130 | 15-FEB-22 |
| Molybdenum (Mo)-Dissolved | | | 105.7 | | % | | 70-130 | 15-FEB-22 |
| Nickel (Ni)-Dissolved | | | 102.3 | | % | | 70-130 | 15-FEB-22 |
| Phosphorus (P)-Dissolved | | | 103.8 | | % | | 70-130 | 15-FEB-22 |
| Potassium (K)-Dissolved | | | 97.7 | | % | | 70-130 | 15-FEB-22 |
| Rubidium (Rb)-Dissolved | | | 103.6 | | % | | 70-130 | 15-FEB-22 |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5725323 | | | | | | | |
| WG3695922-4 MS | | L2685225-8 | | | | | | |
| Selenium (Se)-Dissolved | | | 106.0 | | % | | 70-130 | 15-FEB-22 |
| Silicon (Si)-Dissolved | | | 93.2 | | % | | 70-130 | 15-FEB-22 |
| Silver (Ag)-Dissolved | | | 97.3 | | % | | 70-130 | 15-FEB-22 |
| Sodium (Na)-Dissolved | | | N/A | MS-B | % | | - | 15-FEB-22 |
| Strontium (Sr)-Dissolved | | | N/A | MS-B | % | | - | 15-FEB-22 |
| Sulfur (S)-Dissolved | | | 105.9 | | % | | 70-130 | 15-FEB-22 |
| Tellurium (Te)-Dissolved | | | 103.2 | | % | | 70-130 | 15-FEB-22 |
| Thallium (Tl)-Dissolved | | | 99.2 | | % | | 70-130 | 15-FEB-22 |
| Thorium (Th)-Dissolved | | | 102.2 | | % | | 70-130 | 15-FEB-22 |
| Tin (Sn)-Dissolved | | | 101.1 | | % | | 70-130 | 15-FEB-22 |
| Titanium (Ti)-Dissolved | | | 103.3 | | % | | 70-130 | 15-FEB-22 |
| Tungsten (W)-Dissolved | | | 103.6 | | % | | 70-130 | 15-FEB-22 |
| Uranium (U)-Dissolved | | | 102.0 | | % | | 70-130 | 15-FEB-22 |
| Vanadium (V)-Dissolved | | | 104.1 | | % | | 70-130 | 15-FEB-22 |
| Zinc (Zn)-Dissolved | | | 101.2 | | % | | 70-130 | 15-FEB-22 |
| Zirconium (Zr)-Dissolved | | | 107.1 | | % | | 70-130 | 15-FEB-22 |
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5725076 | | | | | | | |
| WG3695742-11 DUP | | L2685225-11 | | | | | | |
| Aluminum (Al)-Total | | 0.259 | 0.246 | | mg/L | 5.0 | 20 | 15-FEB-22 |
| Antimony (Sb)-Total | | 0.000090 | 0.000110 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Arsenic (As)-Total | | 0.00112 | 0.00108 | | mg/L | 3.7 | 20 | 15-FEB-22 |
| Barium (Ba)-Total | | 0.0266 | 0.0264 | | mg/L | 0.7 | 20 | 15-FEB-22 |
| Beryllium (Be)-Total | | 0.0000188 | 0.0000167 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Bismuth (Bi)-Total | | 0.00001 | 0.00002 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Boron (B)-Total | | 0.0110 | 0.0115 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Cadmium (Cd)-Total | | 0.000018 | 0.000017 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Calcium (Ca)-Total | | 53.3 | 54.6 | | mg/L | 2.5 | 20 | 15-FEB-22 |
| Cesium (Cs)-Total | | 0.0000380 | 0.0000350 | | mg/L | 8.2 | 20 | 15-FEB-22 |
| Chromium (Cr)-Total | | 0.00086 | 0.00084 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Cobalt (Co)-Total | | 0.000315 | 0.000325 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Copper (Cu)-Total | | 0.00342 | 0.00344 | | mg/L | 0.9 | 20 | 15-FEB-22 |
| Iron (Fe)-Total | | 0.580 | 0.573 | | mg/L | 1.1 | 20 | 15-FEB-22 |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|----------|-----------|-------|----------|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5725076 | | | | | | | |
| WG3695742-11 | DUP | L2685225-11 | | | | | | |
| Lead (Pb)-Total | | 0.00031 | 0.00031 | | mg/L | 0.3 | 20 | 15-FEB-22 |
| Lithium (Li)-Total | | 0.0048 | 0.0050 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Magnesium (Mg)-Total | | 19.4 | 19.6 | | mg/L | 1.4 | 20 | 15-FEB-22 |
| Manganese (Mn)-Total | | 0.108 | 0.110 | | mg/L | 1.0 | 20 | 15-FEB-22 |
| Molybdenum (Mo)-Total | | 0.000715 | 0.000740 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Nickel (Ni)-Total | | 0.00196 | 0.00208 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Phosphorus (P)-Total | | 0.035 | 0.035 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Potassium (K)-Total | | 2.27 | 2.30 | | mg/L | 1.2 | 20 | 15-FEB-22 |
| Rubidium (Rb)-Total | | 0.00203 | 0.00199 | | mg/L | 2.0 | 20 | 15-FEB-22 |
| Selenium (Se)-Total | | 0.000245 | 0.000195 | J | mg/L | 0.000045 | 0.0001 | 15-FEB-22 |
| Silicon (Si)-Total | | 6.35 | 6.39 | | mg/L | 0.6 | 20 | 15-FEB-22 |
| Silver (Ag)-Total | | 0.000006 | 0.000007 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Sodium (Na)-Total | | 5.91 | 6.05 | | mg/L | 2.3 | 20 | 15-FEB-22 |
| Strontium (Sr)-Total | | 0.114 | 0.113 | | mg/L | 1.6 | 20 | 15-FEB-22 |
| Sulfur (S)-Total | | 5.0 | 5.0 | | mg/L | 1.2 | 20 | 15-FEB-22 |
| Tellurium (Te)-Total | | 0.00008 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Thallium (Tl)-Total | | 0.000005 | 0.000005 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Thorium (Th)-Total | | 0.00006 | 0.00006 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Tin (Sn)-Total | | <0.00001 | 0.00002 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Titanium (Ti)-Total | | 0.00772 | 0.00718 | | mg/L | 7.2 | 20 | 15-FEB-22 |
| Tungsten (W)-Total | | <0.00001 | 0.00001 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Uranium (U)-Total | | 0.00209 | 0.00211 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| Vanadium (V)-Total | | 0.00120 | 0.00120 | | mg/L | 0.5 | 20 | 15-FEB-22 |
| Zinc (Zn)-Total | | 0.0135 | 0.0150 | | mg/L | 11 | 20 | 15-FEB-22 |
| Zirconium (Zr)-Total | | 0.000474 | 0.000456 | RPD-NA | mg/L | N/A | 20 | 15-FEB-22 |
| WG3695742-10 | | LCS | | | | | | |
| Aluminum (Al)-Total | | | 109.0 | | % | | 80-120 | 15-FEB-22 |
| Antimony (Sb)-Total | | | 114.0 | | % | | 80-120 | 15-FEB-22 |
| Arsenic (As)-Total | | | 109.8 | | % | | 80-120 | 15-FEB-22 |
| Barium (Ba)-Total | | | 106.9 | | % | | 80-120 | 15-FEB-22 |
| Beryllium (Be)-Total | | | 107.2 | | % | | 80-120 | 15-FEB-22 |
| Bismuth (Bi)-Total | | | 104.4 | | % | | 80-120 | 15-FEB-22 |
| Boron (B)-Total | | | 102.3 | | % | | 80-120 | 15-FEB-22 |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5725076 | | | | | | | |
| WG3695742-10 LCS | | | | | | | | |
| Cadmium (Cd)-Total | | | 103.5 | | % | | 80-120 | 15-FEB-22 |
| Calcium (Ca)-Total | | | 106.8 | | % | | 80-120 | 15-FEB-22 |
| Cesium (Cs)-Total | | | 106.4 | | % | | 80-120 | 15-FEB-22 |
| Chromium (Cr)-Total | | | 105.4 | | % | | 80-120 | 15-FEB-22 |
| Cobalt (Co)-Total | | | 105.4 | | % | | 80-120 | 15-FEB-22 |
| Copper (Cu)-Total | | | 105.1 | | % | | 80-120 | 15-FEB-22 |
| Iron (Fe)-Total | | | 112.5 | | % | | 80-120 | 15-FEB-22 |
| Lead (Pb)-Total | | | 104.4 | | % | | 80-120 | 15-FEB-22 |
| Lithium (Li)-Total | | | 104.7 | | % | | 80-120 | 15-FEB-22 |
| Magnesium (Mg)-Total | | | 112.1 | | % | | 80-120 | 15-FEB-22 |
| Manganese (Mn)-Total | | | 105.8 | | % | | 80-120 | 15-FEB-22 |
| Molybdenum (Mo)-Total | | | 110.2 | | % | | 80-120 | 15-FEB-22 |
| Nickel (Ni)-Total | | | 106.5 | | % | | 80-120 | 15-FEB-22 |
| Phosphorus (P)-Total | | | 112.6 | | % | | 80-120 | 15-FEB-22 |
| Potassium (K)-Total | | | 108.5 | | % | | 80-120 | 15-FEB-22 |
| Rubidium (Rb)-Total | | | 110.6 | | % | | 80-120 | 15-FEB-22 |
| Selenium (Se)-Total | | | 108.9 | | % | | 80-120 | 15-FEB-22 |
| Silicon (Si)-Total | | | 111.6 | | % | | 80-120 | 15-FEB-22 |
| Silver (Ag)-Total | | | 96.7 | | % | | 80-120 | 15-FEB-22 |
| Sodium (Na)-Total | | | 109.6 | | % | | 80-120 | 15-FEB-22 |
| Strontium (Sr)-Total | | | 105.1 | | % | | 80-120 | 15-FEB-22 |
| Sulfur (S)-Total | | | 105.3 | | % | | 80-120 | 15-FEB-22 |
| Tellurium (Te)-Total | | | 111.5 | | % | | 80-120 | 15-FEB-22 |
| Thallium (Tl)-Total | | | 103.1 | | % | | 80-120 | 15-FEB-22 |
| Thorium (Th)-Total | | | 102.5 | | % | | 80-120 | 15-FEB-22 |
| Tin (Sn)-Total | | | 107.2 | | % | | 80-120 | 15-FEB-22 |
| Titanium (Ti)-Total | | | 108.0 | | % | | 80-120 | 15-FEB-22 |
| Tungsten (W)-Total | | | 110.5 | | % | | 80-120 | 15-FEB-22 |
| Uranium (U)-Total | | | 102.2 | | % | | 80-120 | 15-FEB-22 |
| Vanadium (V)-Total | | | 108.0 | | % | | 80-120 | 15-FEB-22 |
| Zinc (Zn)-Total | | | 105.2 | | % | | 80-120 | 15-FEB-22 |
| Zirconium (Zr)-Total | | | 107.5 | | % | | 80-120 | 15-FEB-22 |
| WG3695742-9 MB | | | | | | | | |
| Aluminum (Al)-Total | | | 0.0010 | | mg/L | | 0.005 | 15-FEB-22 |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5725076 | | | | | | | |
| WG3695742-9 MB | | | | | | | | |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 15-FEB-22 |
| Arsenic (As)-Total | | | 0.00002 | | mg/L | | 0.001 | 15-FEB-22 |
| Barium (Ba)-Total | | | 0.00002 | | mg/L | | 0.01 | 15-FEB-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 15-FEB-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 15-FEB-22 |
| Boron (B)-Total | | | 0.0010 | | mg/L | | 0.05 | 15-FEB-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 15-FEB-22 |
| Calcium (Ca)-Total | | | <0.002 | | mg/L | | 0.2 | 15-FEB-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 15-FEB-22 |
| Chromium (Cr)-Total | | | 0.00004 | | mg/L | | 0.001 | 15-FEB-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 15-FEB-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 15-FEB-22 |
| Iron (Fe)-Total | | | 0.0010 | | mg/L | | 0.02 | 15-FEB-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 15-FEB-22 |
| Lithium (Li)-Total | | | <0.0002 | | mg/L | | 0.05 | 15-FEB-22 |
| Magnesium (Mg)-Total | | | 0.0004 | | mg/L | | 0.02 | 15-FEB-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 15-FEB-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 15-FEB-22 |
| Nickel (Ni)-Total | | | 0.00002 | | mg/L | | 0.002 | 15-FEB-22 |
| Phosphorus (P)-Total | | | 0.010 | | mg/L | | 0.05 | 15-FEB-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 15-FEB-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 15-FEB-22 |
| Selenium (Se)-Total | | | 0.000005 | | mg/L | | 0.00005 | 15-FEB-22 |
| Silicon (Si)-Total | | | 0.028 | | mg/L | | 0.1 | 15-FEB-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 15-FEB-22 |
| Sodium (Na)-Total | | | <0.005 | | mg/L | | 0.1 | 15-FEB-22 |
| Strontium (Sr)-Total | | | 0.000010 | | mg/L | | 0.001 | 15-FEB-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 15-FEB-22 |
| Tellurium (Te)-Total | | | 0.00008 | | mg/L | | 0.001 | 15-FEB-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 15-FEB-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 15-FEB-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 15-FEB-22 |
| Titanium (Ti)-Total | | | 0.00001 | | mg/L | | 0.002 | 15-FEB-22 |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|------------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5725076 | | | | | | | |
| WG3695742-9 MB | | | | | | | | |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 15-FEB-22 |
| Uranium (U)-Total | | | <0.000000E | | mg/L | | 0.005 | 15-FEB-22 |
| Vanadium (V)-Total | | | 0.00010 | | mg/L | | 0.001 | 15-FEB-22 |
| Zinc (Zn)-Total | | | 0.0015 | | mg/L | | 0.003 | 15-FEB-22 |
| Zirconium (Zr)-Total | | | <0.000002 | | mg/L | | 0.001 | 15-FEB-22 |
| WG3695742-12 MS | | L2685225-12 | | | | | | |
| Antimony (Sb)-Total | | | 110.8 | | % | | 70-130 | 15-FEB-22 |
| Arsenic (As)-Total | | | 110.6 | | % | | 70-130 | 15-FEB-22 |
| Barium (Ba)-Total | | | N/A | MS-B | % | | - | 15-FEB-22 |
| Beryllium (Be)-Total | | | 104.9 | | % | | 70-130 | 15-FEB-22 |
| Bismuth (Bi)-Total | | | 100.2 | | % | | 70-130 | 15-FEB-22 |
| Boron (B)-Total | | | 104.7 | | % | | 70-130 | 15-FEB-22 |
| Cadmium (Cd)-Total | | | 106.2 | | % | | 70-130 | 15-FEB-22 |
| Calcium (Ca)-Total | | | N/A | MS-B | % | | - | 15-FEB-22 |
| Cesium (Cs)-Total | | | 110.5 | | % | | 70-130 | 15-FEB-22 |
| Chromium (Cr)-Total | | | 105.4 | | % | | 70-130 | 15-FEB-22 |
| Cobalt (Co)-Total | | | 105.3 | | % | | 70-130 | 15-FEB-22 |
| Copper (Cu)-Total | | | 104.8 | | % | | 70-130 | 15-FEB-22 |
| Iron (Fe)-Total | | | 109.1 | | % | | 70-130 | 15-FEB-22 |
| Lead (Pb)-Total | | | 104.6 | | % | | 70-130 | 15-FEB-22 |
| Lithium (Li)-Total | | | 97.8 | | % | | 70-130 | 15-FEB-22 |
| Magnesium (Mg)-Total | | | N/A | MS-B | % | | - | 15-FEB-22 |
| Manganese (Mn)-Total | | | N/A | MS-B | % | | - | 15-FEB-22 |
| Molybdenum (Mo)-Total | | | 109.5 | | % | | 70-130 | 15-FEB-22 |
| Nickel (Ni)-Total | | | 105.7 | | % | | 70-130 | 15-FEB-22 |
| Phosphorus (P)-Total | | | 111.9 | | % | | 70-130 | 15-FEB-22 |
| Potassium (K)-Total | | | 100.4 | | % | | 70-130 | 15-FEB-22 |
| Rubidium (Rb)-Total | | | 104.7 | | % | | 70-130 | 15-FEB-22 |
| Selenium (Se)-Total | | | 112.0 | | % | | 70-130 | 15-FEB-22 |
| Silicon (Si)-Total | | | 103.0 | | % | | 70-130 | 15-FEB-22 |
| Silver (Ag)-Total | | | 105.2 | | % | | 70-130 | 15-FEB-22 |
| Sodium (Na)-Total | | | N/A | MS-B | % | | - | 15-FEB-22 |
| Strontium (Sr)-Total | | | N/A | MS-B | % | | - | 15-FEB-22 |
| Sulfur (S)-Total | | | 108.3 | | % | | 70-130 | 15-FEB-22 |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5725076 | | | | | | | |
| WG3695742-12 MS | | L2685225-12 | | | | | | |
| Tellurium (Te)-Total | | | 105.7 | | % | | 70-130 | 15-FEB-22 |
| Thallium (Tl)-Total | | | 101.2 | | % | | 70-130 | 15-FEB-22 |
| Thorium (Th)-Total | | | 105.2 | | % | | 70-130 | 15-FEB-22 |
| Tin (Sn)-Total | | | 105.2 | | % | | 70-130 | 15-FEB-22 |
| Titanium (Ti)-Total | | | 113.1 | | % | | 70-130 | 15-FEB-22 |
| Tungsten (W)-Total | | | 106.6 | | % | | 70-130 | 15-FEB-22 |
| Uranium (U)-Total | | | 106.5 | | % | | 70-130 | 15-FEB-22 |
| Vanadium (V)-Total | | | 109.2 | | % | | 70-130 | 15-FEB-22 |
| Zinc (Zn)-Total | | | 101.0 | | % | | 70-130 | 15-FEB-22 |
| Zirconium (Zr)-Total | | | 108.8 | | % | | 70-130 | 15-FEB-22 |
| NH3-MISA-F-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5721097 | | | | | | | |
| WG3695262-2 LCS | | | | | | | | |
| Ammonia, Total (as N) | | | 97.0 | | % | | 85-115 | 11-FEB-22 |
| WG3695262-1 MB | | | | | | | | |
| Ammonia, Total (as N) | | | <0.002 | | mg/L | | 0.005 | 11-FEB-22 |
| NO2-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5723307 | | | | | | | |
| WG3695326-1 MB | | | | | | | | |
| Nitrite (as N) | | | 0.002 | | mg/L | | 0.01 | 14-FEB-22 |
| NO3-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5723307 | | | | | | | |
| WG3695326-2 LCS | | | | | | | | |
| Nitrate (as N) | | | 105.7 | | % | | 90-110 | 14-FEB-22 |
| WG3695326-1 MB | | | | | | | | |
| Nitrate (as N) | | | <0.002 | | mg/L | | 0.02 | 14-FEB-22 |
| OGG-TOT-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5723700 | | | | | | | |
| WG3696055-2 LCS | | | | | | | | |
| Oil and Grease, Total | | | 96.5 | | % | | 50-150 | 15-FEB-22 |
| WG3696055-1 MB | | | | | | | | |
| Oil and Grease, Total | | | 0.6 | | mg/L | | 1 | 15-FEB-22 |
| PH-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|---------|-----------|
| PH-MISA-TB | | | | | | | | |
| Effluent | | | | | | | | |
| Batch | R5721523 | | | | | | | |
| WG3695313-2 | LCS | | | | | | | |
| pH | | | 6.94 | | pH | | 6.9-7.1 | 11-FEB-22 |
| SO4-MISA-IC-TB | | | | | | | | |
| Effluent | | | | | | | | |
| Batch | R5723307 | | | | | | | |
| WG3695326-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 100.7 | | % | | 90-110 | 14-FEB-22 |
| WG3695326-1 | MB | | | | | | | |
| Sulfate (SO4) | | | 0.10 | | mg/L | | 0.3 | 14-FEB-22 |
| TDS-MISA-TB | | | | | | | | |
| Effluent | | | | | | | | |
| Batch | R5722145 | | | | | | | |
| WG3695513-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 94.5 | | % | | 85-115 | 12-FEB-22 |
| WG3695513-1 | MB | | | | | | | |
| Total Dissolved Solids | | | 4 | | mg/L | | 10 | 12-FEB-22 |
| Batch | R5725206 | | | | | | | |
| WG3696195-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 97.2 | | % | | 85-115 | 15-FEB-22 |
| WG3696195-1 | MB | | | | | | | |
| Total Dissolved Solids | | | 6 | | mg/L | | 10 | 15-FEB-22 |
| Batch | R5725301 | | | | | | | |
| WG3696378-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 106.0 | | % | | 85-115 | 15-FEB-22 |
| WG3696378-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <2 | | mg/L | | 10 | 15-FEB-22 |
| TSS-MISA-TB | | | | | | | | |
| Effluent | | | | | | | | |
| Batch | R5721617 | | | | | | | |
| WG3695511-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 98.0 | | % | | 85-115 | 12-FEB-22 |
| WG3695511-1 | MB | | | | | | | |
| Total Suspended Solids | | | 1.0 | | mg/L | | 3 | 12-FEB-22 |
| Batch | R5725164 | | | | | | | |
| WG3696190-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 93.2 | | % | | 85-115 | 15-FEB-22 |
| WG3696190-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 15-FEB-22 |



Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|--------|-----------|
| TSS-MISA-TB | Effluent | | | | | | | |
| Batch | R5725288 | | | | | | | |
| WG3696384-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 105.2 | | % | | 85-115 | 15-FEB-22 |
| WG3696384-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 15-FEB-22 |

Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| B | Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable. |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0
 Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|---|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Turbidity | | | | | | | |
| | 1 | 08-FEB-22 12:00 | 12-FEB-22 14:45 | 3 | 4 | days | EHTR |
| | 3 | 08-FEB-22 12:00 | 12-FEB-22 14:45 | 3 | 4 | days | EHTR |
| | 4 | 08-FEB-22 10:10 | 12-FEB-22 14:45 | 3 | 4 | days | EHTR |
| | 5 | 08-FEB-22 12:00 | 12-FEB-22 14:45 | 3 | 4 | days | EHTR |
| | 6 | 08-FEB-22 10:00 | 12-FEB-22 14:45 | 3 | 4 | days | EHTR |
| | 7 | 08-FEB-22 11:00 | 12-FEB-22 14:45 | 3 | 4 | days | EHTR |
| | 8 | 08-FEB-22 09:45 | 12-FEB-22 14:45 | 3 | 4 | days | EHTR |
| Leachable Anions & Nutrients | | | | | | | |
| Nitrate in Water by IC | | | | | | | |
| | 1 | 08-FEB-22 12:00 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 2 | 08-FEB-22 13:45 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 3 | 08-FEB-22 12:00 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 4 | 08-FEB-22 10:10 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 5 | 08-FEB-22 12:00 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 6 | 08-FEB-22 10:00 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 7 | 08-FEB-22 11:00 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 8 | 08-FEB-22 09:45 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 9 | 08-FEB-22 13:00 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 10 | 08-FEB-22 13:15 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 11 | 08-FEB-22 13:15 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 12 | 08-FEB-22 12:40 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| Nitrite in Water by IC | | | | | | | |
| | 1 | 08-FEB-22 12:00 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 2 | 08-FEB-22 13:45 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 3 | 08-FEB-22 12:00 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 4 | 08-FEB-22 10:10 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 5 | 08-FEB-22 12:00 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 6 | 08-FEB-22 10:00 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 7 | 08-FEB-22 11:00 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 8 | 08-FEB-22 09:45 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 9 | 08-FEB-22 13:00 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 10 | 08-FEB-22 13:15 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 11 | 08-FEB-22 13:15 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| | 12 | 08-FEB-22 12:40 | 14-FEB-22 09:36 | 5 | 6 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon for MISA | | | | | | | |
| | 1 | 08-FEB-22 12:00 | 16-FEB-22 00:00 | 3 | 8 | days | EHTR |
| | 2 | 08-FEB-22 13:45 | 16-FEB-22 00:00 | 3 | 7 | days | EHTL |
| | 3 | 08-FEB-22 12:00 | 16-FEB-22 00:00 | 3 | 8 | days | EHTR |
| | 4 | 08-FEB-22 10:10 | 16-FEB-22 00:00 | 3 | 8 | days | EHTR |
| | 5 | 08-FEB-22 12:00 | 16-FEB-22 00:00 | 3 | 8 | days | EHTR |
| | 6 | 08-FEB-22 10:00 | 16-FEB-22 00:00 | 3 | 8 | days | EHTR |
| | 7 | 08-FEB-22 11:00 | 16-FEB-22 00:00 | 3 | 8 | days | EHTR |
| | 8 | 08-FEB-22 09:45 | 16-FEB-22 00:00 | 3 | 8 | days | EHTR |
| | 9 | 08-FEB-22 13:00 | 16-FEB-22 00:00 | 3 | 7 | days | EHTL |
| | 10 | 08-FEB-22 13:15 | 16-FEB-22 00:00 | 3 | 7 | days | EHTL |
| | 11 | 08-FEB-22 13:15 | 16-FEB-22 00:00 | 3 | 7 | days | EHTL |
| | 12 | 08-FEB-22 12:40 | 16-FEB-22 00:00 | 3 | 7 | days | EHTL |
| | 13 | 10-FEB-22 12:00 | 16-FEB-22 00:00 | 3 | 6 | days | EHT |

Legend & Qualifier Definitions:

Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 22 of 22

Contact: Garnet Cornell

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2685225 were received on 11-FEB-22 12:10.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2685225-COFC

AJ

L2685225

CHAIN OF CUSTODY RECORD - ALS-446026264

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 2/10/2022 3:02:00 PM COC Number: ALS-446026264 | | | | | | Containers Filtered Preservatives | | SW Kit | Re-226 Bottle | | | | | | | | Number of Containers | Comments |
|---|------|------|------|------------------|--------|--|----------------|--------|---------------|--|--|--|----|--|--|--|----------------------|----------|
| | | | | | | N | N | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | NG-SW-P-TB | RA226-MIMER-BE | | | | | | | | | | | |
| Sample Code | DO | PH | TEMP | Date and Time | Matrix | NG-SW-P-TB | RA226-MIMER-BE | | | | | | | | | | | |
| 1 FB_SW_20220208 | | | | 02/08/2022 12:00 | SW | X | | | | | | | 11 | | | | | |
| 2 SW02_SW_20220208 | 6.49 | 6.81 | 0.03 | 02/08/2022 13:45 | SW | X | | | | | | | 11 | | | | | |
| 3 SW06_SW_20220208 | | | | 02/08/2022 12:00 | SW | X | | | | | | | 11 | | | | | |
| 4 SW10_SW_20220208 | 13.1 | 6.67 | 0.18 | 02/08/2022 10:10 | SW | X | | | | | | | 11 | | | | | |
| 5 SW15_SW_20220208 | 7.24 | 6.49 | 1.05 | 02/08/2022 12:00 | SW | X | | | | | | | 11 | | | | | |
| 6 SW16_SW_20220208 | 13.5 | 5.41 | 1.48 | 02/08/2022 10:00 | SW | X | | | | | | | 11 | | | | | |

| | | | | |
|--|--|---|-------------|--|
| Signature Shipped by Received by AJ 5.1 ^o 02/11/22 12:30 | Date/Time 2/10/2022 3:02:00 PM | Shipping Details Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | ATTN | Special Instructions: Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| | | | | |

AJ



L2685225-COFC



CHAIN OF CUSTODY RECORD - ALS-446026264

L2685225

AJ

Project Name: Rainy River
 Location: Chapple
 Project Number:
 Project Manager:
 PO Number:
 Project:
 Turn Around Time (days): 10 Business Days
 Shipping Company:
 Shipping Date: 2/10/2022 3:02:00 PM
 COC Number: ALS-446026264

| Sample Code | DO | PH | TEMP | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | Number of Containers | Comments |
|---------------------|-------|------|-------|------------------|--------|------------|---------------|--|--|--|--|--|--|--|--|----------------------|----------|
| 7 SW17_SW_20220208 | 10.28 | 5.96 | 0.12 | 02/08/2022 11:00 | SW | X | | | | | | | | | | 11 | |
| 8 SW20_SW_20220208 | 13.61 | 5.96 | 2.18 | 02/08/2022 09:45 | SW | X | X | | | | | | | | | 12 | |
| 9 SW23_SW_20220208 | 7.52 | 6.73 | 1.41 | 02/08/2022 13:00 | SW | X | X | | | | | | | | | 12 | |
| 10 SW24_SW_20220208 | 5.69 | 6.63 | -0.09 | 02/08/2022 13:15 | SW | X | X | | | | | | | | | 12 | |
| 11 SW25_SW_20220208 | 6.48 | 7.24 | 0.51 | 02/08/2022 13:15 | SW | X | | | | | | | | | | 11 | |
| 12 SW26_SW_20220208 | 8.61 | 7.17 | 1.29 | 02/08/2022 12:40 | SW | X | | | | | | | | | | 11 | |
| 13 TB_SW_20220208 | | | | 02/10/2022 12:00 | SW | X | | | | | | | | | | 11 | |

| | | | | |
|-------------|-------------------------|---|------|--|
| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
| Shipped by | 2/10/2022 3:02:00 PM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | AJ 5.1°C 02/11/22 12:10 | | | |

AJ



L2685225-COFC

AS

L2685225

CHAIN OF CUSTODY RECORD - ALS-446026264

| |
|---|
| Drinking Water (DW) Samples (client use) |
| Are samples taken from a Regulated DW System? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Are samples for human consumption / use? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Samples from a Regulated DW System require an Authorized DW COC form |

| | | | | | | | |
|--|--|--|--|------------------------------|--|--|--|
| Sample Receipt Details (ALS use only) | | | | | | | |
| Cooling Method: <input type="checkbox"/> None <input type="checkbox"/> Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Frozen <input type="checkbox"/> Cooling Initiated | | | | | | | |
| Submission Comments Identified on Sample Receipt Notification: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | |
| Cooler Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA Sample Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA | | | | | | | |
| Initial Cooler Temperatures °C | | | | Final Cooler Temperatures °C | | | |
| | | | | | | | |

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|----------------------|---|------|--|
| Shipped by | 2/10/2022 3:02:00 PM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | |
| Received by | | | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |

AJ



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 18-FEB-22
Report Date: 22-MAR-22 20:33 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2686956
Project P.O. #: 4500058071
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:

<original signed by>

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|-------|-----------|-----------|----------|
| L2686956-1 TB_SW_20220208 Sampled By: Client on 17-FEB-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 18-FEB-22 | R5727705 |
| Conductivity (EC) | <0.2 | <W | 1.0 | uS/cm | | 18-FEB-22 | R5728155 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 24-FEB-22 | |
| pH | 5.24 | | 0.10 | pH | | 18-FEB-22 | R5728155 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 23-FEB-22 | R5729161 |
| Total Dissolved Solids | 48 | | 10 | mg/L | | 23-FEB-22 | R5729162 |
| Turbidity | <0.10 | | 0.10 | NTU | | 18-FEB-22 | R5727635 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.2 | <DL | 2.0 | mg/L | | 22-FEB-22 | R5728403 |
| Alkalinity, Total (as CaCO3) | 0.4 | <DL | 2.0 | mg/L | | 18-FEB-22 | R5728155 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 25-FEB-22 | R5729580 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 18-FEB-22 | 18-FEB-22 | R5728002 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 18-FEB-22 | 18-FEB-22 | R5728002 |
| Nitrate (as N) | 0.002 | <DL | 0.020 | mg/L | | 18-FEB-22 | R5728002 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 18-FEB-22 | R5728002 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 18-FEB-22 | 24-FEB-22 | R5729072 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 18-FEB-22 | 22-FEB-22 | R5728197 |
| Sulfate (SO4) | 0.10 | <DL | 0.30 | mg/L | | 18-FEB-22 | R5728002 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0002 | <DL | 0.0020 | mg/L | | 22-FEB-22 | R5728513 |
| Cyanide, Total | 0.0002 | <DL | 0.0020 | mg/L | | 22-FEB-22 | R5728513 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 22-FEB-22 | R5728513 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 23-FEB-22 | 23-FEB-22 | R5728906 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 23-FEB-22 | R5728915 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | <0.0002 | <W | 0.0050 | mg/L | | 23-FEB-22 | R5728893 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00060 | mg/L | | 23-FEB-22 | R5728893 |
| Arsenic (As)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Barium (Ba)-Total | <0.00001 | <W | 0.010 | mg/L | | 23-FEB-22 | R5728893 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Boron (B)-Total | 0.0010 | <DL | 0.050 | mg/L | | 23-FEB-22 | R5728893 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 23-FEB-22 | R5728893 |
| Calcium (Ca)-Total | <0.002 | <W | 0.20 | mg/L | | 23-FEB-22 | R5728893 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 23-FEB-22 | R5728893 |
| Chromium (Cr)-Total | <0.00002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 23-FEB-22 | R5728893 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Iron (Fe)-Total | <0.0005 | <W | 0.020 | mg/L | | 23-FEB-22 | R5728893 |
| Lead (Pb)-Total | <0.00001 | <W | 0.000050 | mg/L | | 23-FEB-22 | R5728893 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 23-FEB-22 | R5728893 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2686956-1 TB_SW_20220208 | | | | | | | |
| Sampled By: Client on 17-FEB-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Magnesium (Mg)-Total | 0.0002 | <DL | 0.020 | mg/L | | 23-FEB-22 | R5728893 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 24-FEB-22 | R5729003 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Nickel (Ni)-Total | <0.00002 | <W | 0.0020 | mg/L | | 23-FEB-22 | R5728893 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 23-FEB-22 | R5728893 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 23-FEB-22 | R5728893 |
| Rubidium (Rb)-Total | <0.000002 | <W | 0.00020 | mg/L | | 23-FEB-22 | R5728893 |
| Selenium (Se)-Total | <0.000005 | <W | 0.000050 | mg/L | | 23-FEB-22 | R5728893 |
| Silicon (Si)-Total | 0.004 | <DL | 0.10 | mg/L | | 23-FEB-22 | R5728893 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 23-FEB-22 | R5728893 |
| Sodium (Na)-Total | 0.010 | <DL | 0.10 | mg/L | | 23-FEB-22 | R5728893 |
| Strontium (Sr)-Total | <0.000005 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 23-FEB-22 | R5728893 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 23-FEB-22 | R5728893 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 23-FEB-22 | R5728893 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Titanium (Ti)-Total | <0.00001 | <W | 0.0020 | mg/L | | 23-FEB-22 | R5728893 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 23-FEB-22 | R5728893 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 23-FEB-22 | R5728893 |
| Vanadium (V)-Total | <0.00005 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Zinc (Zn)-Total | <0.0005 | <W | 0.0030 | mg/L | | 23-FEB-22 | R5728893 |
| Zirconium (Zr)-Total | <0.000002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 23-FEB-22 | R5728517 |
| Aluminum (Al)-Dissolved | <0.0002 | <W | 0.0050 | mg/L | | 23-FEB-22 | R5728898 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 23-FEB-22 | R5728898 |
| Arsenic (As)-Dissolved | <0.0000002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Barium (Ba)-Dissolved | <0.000005 | <W | 0.010 | mg/L | | 23-FEB-22 | R5728898 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Boron (B)-Dissolved | 0.0010 | <DL | 0.050 | mg/L | | 23-FEB-22 | R5728898 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 23-FEB-22 | R5728898 |
| Calcium (Ca)-Dissolved | <0.002 | <W | 0.20 | mg/L | | 23-FEB-22 | R5728898 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 23-FEB-22 | R5728898 |
| Chromium (Cr)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 23-FEB-22 | R5728898 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Iron (Fe)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 23-FEB-22 | R5728898 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 23-FEB-22 | R5728898 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|----------|-----------|-----------|----------|
| L2686956-1 TB_SW_20220208 Sampled By: Client on 17-FEB-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lithium (Li)-Dissolved | 0.0004 | <DL | 0.050 | mg/L | | 23-FEB-22 | R5728898 |
| Magnesium (Mg)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 23-FEB-22 | R5728898 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 24-FEB-22 | R5729002 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 23-FEB-22 | R5728898 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 23-FEB-22 | R5728898 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 23-FEB-22 | R5728898 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 23-FEB-22 | R5728898 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 23-FEB-22 | R5728898 |
| Silicon (Si)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 23-FEB-22 | R5728898 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 23-FEB-22 | R5728898 |
| Sodium (Na)-Dissolved | 0.005 | <DL | 0.10 | mg/L | | 23-FEB-22 | R5728898 |
| Strontium (Sr)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 23-FEB-22 | R5728898 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 23-FEB-22 | R5728898 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 23-FEB-22 | R5728898 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 23-FEB-22 | R5728898 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 23-FEB-22 | R5728898 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.0050 | mg/L | | 23-FEB-22 | R5728898 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 23-FEB-22 | R5728898 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 18-FEB-22 | R5728667 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 18-FEB-22 | 22-FEB-22 | R5728280 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 24-FEB-22 | 24-FEB-22 | R5728980 |
| L2686956-2 SW21A_SW_20220208 Sampled By: Client on 16-FEB-22 @ 14:05 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.61 | | 0.10 | pH | | 18-FEB-22 | R5727647 |
| Temperature, Client Supplied | .37 | | 0 | Degree C | | 18-FEB-22 | R5727647 |
| Physical Tests | | | | | | | |
| Color, True | 117 | | 2.0 | CU | | 18-FEB-22 | R5727705 |
| Conductivity (EC) | 374 | | 1.0 | uS/cm | | 18-FEB-22 | R5728155 |
| Hardness (as CaCO3) | 189 | | 0.51 | mg/L | | 24-FEB-22 | |
| pH | 7.33 | | 0.10 | pH | | 18-FEB-22 | R5728155 |
| Total Suspended Solids | 8.5 | | 3.0 | mg/L | | 23-FEB-22 | R5729161 |
| Total Dissolved Solids | 246 | | 20 | mg/L | | 23-FEB-22 | R5729162 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2686956-2 SW21A_SW_20220208 | | | | | | | |
| Sampled By: Client on 16-FEB-22 @ 14:05 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Turbidity | 7.05 | | 0.10 | NTU | | 18-FEB-22 | R5727635 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 6.2 | | 2.0 | mg/L | | 22-FEB-22 | R5728403 |
| Alkalinity, Total (as CaCO3) | 183 | | 2.0 | mg/L | | 18-FEB-22 | R5728155 |
| Ammonia, Total (as N) | 0.066 | <T | 0.0050 | mg/L | | 18-FEB-22 | R5727670 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 22-FEB-22 | |
| Chloride (Cl) | 9.53 | | 0.10 | mg/L | 18-FEB-22 | 18-FEB-22 | R5728002 |
| Fluoride (F) | 0.057 | | 0.020 | mg/L | 18-FEB-22 | 18-FEB-22 | R5728002 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 18-FEB-22 | R5728002 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 18-FEB-22 | R5728002 |
| Total Kjeldahl Nitrogen | 1.27 | | 0.050 | mg/L | 18-FEB-22 | 24-FEB-22 | R5729072 |
| Orthophosphate-Dissolved (as P) | 0.0728 | | 0.0030 | mg/L | 18-FEB-22 | 22-FEB-22 | R5728197 |
| Sulfate (SO4) | 6.95 | | 0.30 | mg/L | | 18-FEB-22 | R5728002 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 22-FEB-22 | R5728513 |
| Cyanide, Total | 0.0014 | <DL | 0.0020 | mg/L | | 22-FEB-22 | R5728513 |
| Cyanide, Free | 0.0009 | <DL | 0.0020 | mg/L | | 22-FEB-22 | R5728513 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 32.3 | DLM | 2.5 | mg/L | 24-FEB-22 | 25-FEB-22 | R5729350 |
| Total Organic Carbon | 32.3 | | 0.50 | mg/L | | 23-FEB-22 | R5728915 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.216 | | 0.0050 | mg/L | | 23-FEB-22 | R5728893 |
| Antimony (Sb)-Total | 0.000060 | <DL | 0.00060 | mg/L | | 23-FEB-22 | R5728893 |
| Arsenic (As)-Total | 0.00110 | <T | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Barium (Ba)-Total | 0.0260 | | 0.010 | mg/L | | 23-FEB-22 | R5728893 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Boron (B)-Total | 0.0120 | <DL | 0.050 | mg/L | | 23-FEB-22 | R5728893 |
| Cadmium (Cd)-Total | 0.000014 | <DL | 0.000017 | mg/L | | 23-FEB-22 | R5728893 |
| Calcium (Ca)-Total | 45.3 | | 0.20 | mg/L | | 23-FEB-22 | R5728893 |
| Cesium (Cs)-Total | 0.0000255 | | 0.000010 | mg/L | | 23-FEB-22 | R5728893 |
| Chromium (Cr)-Total | 0.00068 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Cobalt (Co)-Total | 0.00104 | <T | 0.00050 | mg/L | | 23-FEB-22 | R5728893 |
| Copper (Cu)-Total | 0.00072 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Iron (Fe)-Total | 1.64 | | 0.020 | mg/L | | 23-FEB-22 | R5728893 |
| Lead (Pb)-Total | 0.00018 | <T | 0.000050 | mg/L | | 23-FEB-22 | R5728893 |
| Lithium (Li)-Total | 0.0060 | <DL | 0.050 | mg/L | | 23-FEB-22 | R5728893 |
| Magnesium (Mg)-Total | 18.4 | | 0.020 | mg/L | | 23-FEB-22 | R5728893 |
| Manganese (Mn)-Total | 0.605 | | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 24-FEB-22 | R5729003 |
| Molybdenum (Mo)-Total | 0.000130 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Nickel (Ni)-Total | 0.00172 | <DL | 0.0020 | mg/L | | 23-FEB-22 | R5728893 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2686956-2 SW21A_SW_20220208 | | | | | | | |
| Sampled By: Client on 16-FEB-22 @ 14:05 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Phosphorus (P)-Total | 0.125 | | 0.050 | mg/L | | 23-FEB-22 | R5728893 |
| Potassium (K)-Total | 1.86 | | 0.50 | mg/L | | 23-FEB-22 | R5728893 |
| Rubidium (Rb)-Total | 0.00192 | | 0.00020 | mg/L | | 23-FEB-22 | R5728893 |
| Selenium (Se)-Total | 0.000180 | <T | 0.000050 | mg/L | | 23-FEB-22 | R5728893 |
| Silicon (Si)-Total | 8.08 | | 0.10 | mg/L | | 23-FEB-22 | R5728893 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 23-FEB-22 | R5728893 |
| Sodium (Na)-Total | 6.57 | | 0.10 | mg/L | | 23-FEB-22 | R5728893 |
| Strontium (Sr)-Total | 0.109 | | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Sulfur (S)-Total | 3.0 | | 0.50 | mg/L | | 23-FEB-22 | R5728893 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 23-FEB-22 | R5728893 |
| Thorium (Th)-Total | 0.00007 | <DL | 0.00010 | mg/L | | 23-FEB-22 | R5728893 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Titanium (Ti)-Total | 0.00692 | | 0.0020 | mg/L | | 23-FEB-22 | R5728893 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 23-FEB-22 | R5728893 |
| Uranium (U)-Total | 0.000518 | <DL | 0.0050 | mg/L | | 23-FEB-22 | R5728893 |
| Vanadium (V)-Total | 0.00105 | <T | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Zinc (Zn)-Total | 0.0025 | <DL | 0.0030 | mg/L | | 23-FEB-22 | R5728893 |
| Zirconium (Zr)-Total | 0.000444 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 23-FEB-22 | R5728517 |
| Aluminum (Al)-Dissolved | 0.0142 | <T | 0.0050 | mg/L | | 23-FEB-22 | R5728898 |
| Antimony (Sb)-Dissolved | 0.000050 | <DL | 0.00060 | mg/L | | 23-FEB-22 | R5728898 |
| Arsenic (As)-Dissolved | 0.000869 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Barium (Ba)-Dissolved | 0.0187 | | 0.010 | mg/L | | 23-FEB-22 | R5728898 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Boron (B)-Dissolved | 0.0120 | <DL | 0.050 | mg/L | | 23-FEB-22 | R5728898 |
| Cadmium (Cd)-Dissolved | 0.0000030 | <DL | 0.000017 | mg/L | | 23-FEB-22 | R5728898 |
| Calcium (Ca)-Dissolved | 44.9 | | 0.20 | mg/L | | 23-FEB-22 | R5728898 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 23-FEB-22 | R5728898 |
| Chromium (Cr)-Dissolved | 0.00015 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Cobalt (Co)-Dissolved | 0.000120 | <DL | 0.00050 | mg/L | | 23-FEB-22 | R5728898 |
| Copper (Cu)-Dissolved | 0.00036 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Iron (Fe)-Dissolved | 0.720 | | 0.020 | mg/L | | 23-FEB-22 | R5728898 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 23-FEB-22 | R5728898 |
| Lithium (Li)-Dissolved | 0.0066 | <DL | 0.050 | mg/L | | 23-FEB-22 | R5728898 |
| Magnesium (Mg)-Dissolved | 18.7 | | 0.020 | mg/L | | 23-FEB-22 | R5728898 |
| Manganese (Mn)-Dissolved | 0.00392 | | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 24-FEB-22 | R5729002 |
| Molybdenum (Mo)-Dissolved | 0.000128 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|----------|-----------|-----------|----------|
| L2686956-2 SW21A_SW_20220208 Sampled By: Client on 16-FEB-22 @ 14:05 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Nickel (Ni)-Dissolved | 0.00128 | <DL | 0.0020 | mg/L | | 23-FEB-22 | R5728898 |
| Phosphorus (P)-Dissolved | 0.065 | | 0.050 | mg/L | | 23-FEB-22 | R5728898 |
| Potassium (K)-Dissolved | 1.86 | | 0.50 | mg/L | | 23-FEB-22 | R5728898 |
| Rubidium (Rb)-Dissolved | 0.00142 | | 0.00020 | mg/L | | 23-FEB-22 | R5728898 |
| Selenium (Se)-Dissolved | 0.000170 | <T | 0.000050 | mg/L | | 23-FEB-22 | R5728898 |
| Silicon (Si)-Dissolved | 7.69 | | 0.050 | mg/L | | 23-FEB-22 | R5728898 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 23-FEB-22 | R5728898 |
| Sodium (Na)-Dissolved | 6.46 | | 0.10 | mg/L | | 23-FEB-22 | R5728898 |
| Strontium (Sr)-Dissolved | 0.107 | | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Sulfur (S)-Dissolved | 2.8 | | 0.50 | mg/L | | 23-FEB-22 | R5728898 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 23-FEB-22 | R5728898 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 23-FEB-22 | R5728898 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Titanium (Ti)-Dissolved | 0.00090 | <DL | 0.0020 | mg/L | | 23-FEB-22 | R5728898 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 23-FEB-22 | R5728898 |
| Uranium (U)-Dissolved | 0.000476 | <DL | 0.0050 | mg/L | | 23-FEB-22 | R5728898 |
| Vanadium (V)-Dissolved | 0.00046 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Zinc (Zn)-Dissolved | 0.0004 | <DL | 0.0030 | mg/L | | 23-FEB-22 | R5728898 |
| Zirconium (Zr)-Dissolved | 0.000358 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 18-FEB-22 | R5728667 |
| Chemical Oxygen Demand | 89 | | 10 | mg/L | 18-FEB-22 | 22-FEB-22 | R5728280 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 24-FEB-22 | 24-FEB-22 | R5728980 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0062 | | 0.0062 | Bq/L | 03-MAR-22 | 16-MAR-22 | R5730543 |
| L2686956-3 SW22A_SW_20220208 Sampled By: Client on 16-FEB-22 @ 10:20 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 8.03 | | 0.10 | pH | | 18-FEB-22 | R5727647 |
| Temperature, Client Supplied | <0 | | 0 | Degree C | | 18-FEB-22 | R5727647 |
| Physical Tests | | | | | | | |
| Color, True | 114 | | 2.0 | CU | | 18-FEB-22 | R5727705 |
| Conductivity (EC) | 383 | | 1.0 | uS/cm | | 18-FEB-22 | R5728155 |
| Hardness (as CaCO3) | 195 | | 0.51 | mg/L | | 24-FEB-22 | |
| pH | 7.42 | | 0.10 | pH | | 18-FEB-22 | R5728155 |
| Total Suspended Solids | 5.0 | | 3.0 | mg/L | | 23-FEB-22 | R5729161 |
| Total Dissolved Solids | 284 | | 20 | mg/L | | 23-FEB-22 | R5729162 |
| Turbidity | 5.16 | | 0.10 | NTU | | 18-FEB-22 | R5727635 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 5.8 | | 2.0 | mg/L | | 22-FEB-22 | R5728403 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2686956-3 SW22A_SW_20220208 | | | | | | | |
| Sampled By: Client on 16-FEB-22 @ 10:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 186 | | 2.0 | mg/L | | 18-FEB-22 | R5728155 |
| Ammonia, Total (as N) | 0.060 | <T | 0.0050 | mg/L | | 18-FEB-22 | R5727670 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 22-FEB-22 | |
| Chloride (Cl) | 9.79 | | 0.10 | mg/L | 18-FEB-22 | 18-FEB-22 | R5728002 |
| Fluoride (F) | 0.058 | | 0.020 | mg/L | 18-FEB-22 | 18-FEB-22 | R5728002 |
| Nitrate (as N) | 0.028 | <T | 0.020 | mg/L | | 18-FEB-22 | R5728002 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 18-FEB-22 | R5728002 |
| Total Kjeldahl Nitrogen | 1.33 | | 0.050 | mg/L | 18-FEB-22 | 24-FEB-22 | R5729072 |
| Orthophosphate-Dissolved (as P) | 0.0767 | | 0.0030 | mg/L | 18-FEB-22 | 22-FEB-22 | R5728197 |
| Sulfate (SO4) | 7.45 | | 0.30 | mg/L | | 18-FEB-22 | R5728002 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 22-FEB-22 | R5728513 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 22-FEB-22 | R5728513 |
| Cyanide, Free | 0.0008 | <DL | 0.0020 | mg/L | | 22-FEB-22 | R5728513 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 31.9 | DLM | 2.5 | mg/L | 24-FEB-22 | 25-FEB-22 | R5729350 |
| Total Organic Carbon | 33.2 | | 0.50 | mg/L | | 23-FEB-22 | R5728915 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.133 | | 0.0050 | mg/L | | 23-FEB-22 | R5728893 |
| Antimony (Sb)-Total | 0.000060 | <DL | 0.00060 | mg/L | | 23-FEB-22 | R5728893 |
| Arsenic (As)-Total | 0.00108 | <T | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Barium (Ba)-Total | 0.0250 | | 0.010 | mg/L | | 23-FEB-22 | R5728893 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Boron (B)-Total | 0.0120 | <DL | 0.050 | mg/L | | 23-FEB-22 | R5728893 |
| Cadmium (Cd)-Total | 0.000014 | <DL | 0.000017 | mg/L | | 23-FEB-22 | R5728893 |
| Calcium (Ca)-Total | 47.0 | | 0.20 | mg/L | | 23-FEB-22 | R5728893 |
| Cesium (Cs)-Total | 0.0000165 | | 0.000010 | mg/L | | 23-FEB-22 | R5728893 |
| Chromium (Cr)-Total | 0.00056 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Cobalt (Co)-Total | 0.00101 | <T | 0.00050 | mg/L | | 23-FEB-22 | R5728893 |
| Copper (Cu)-Total | 0.00066 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Iron (Fe)-Total | 1.50 | | 0.020 | mg/L | | 23-FEB-22 | R5728893 |
| Lead (Pb)-Total | 0.00014 | <T | 0.000050 | mg/L | | 23-FEB-22 | R5728893 |
| Lithium (Li)-Total | 0.0062 | <DL | 0.050 | mg/L | | 23-FEB-22 | R5728893 |
| Magnesium (Mg)-Total | 18.5 | | 0.020 | mg/L | | 23-FEB-22 | R5728893 |
| Manganese (Mn)-Total | 0.646 | | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 24-FEB-22 | R5729003 |
| Molybdenum (Mo)-Total | 0.000180 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Nickel (Ni)-Total | 0.00166 | <DL | 0.0020 | mg/L | | 23-FEB-22 | R5728893 |
| Phosphorus (P)-Total | 0.110 | | 0.050 | mg/L | | 23-FEB-22 | R5728893 |
| Potassium (K)-Total | 1.89 | | 0.50 | mg/L | | 23-FEB-22 | R5728893 |
| Rubidium (Rb)-Total | 0.00164 | | 0.00020 | mg/L | | 23-FEB-22 | R5728893 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2686956-3 SW22A_SW_20220208 | | | | | | | |
| Sampled By: Client on 16-FEB-22 @ 10:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Selenium (Se)-Total | 0.000185 | <T | 0.000050 | mg/L | | 23-FEB-22 | R5728893 |
| Silicon (Si)-Total | 7.93 | | 0.10 | mg/L | | 23-FEB-22 | R5728893 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 23-FEB-22 | R5728893 |
| Sodium (Na)-Total | 6.57 | | 0.10 | mg/L | | 23-FEB-22 | R5728893 |
| Strontium (Sr)-Total | 0.113 | | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Sulfur (S)-Total | 3.0 | | 0.50 | mg/L | | 23-FEB-22 | R5728893 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 23-FEB-22 | R5728893 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 23-FEB-22 | R5728893 |
| Tin (Sn)-Total | 0.00005 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Titanium (Ti)-Total | 0.00439 | | 0.0020 | mg/L | | 23-FEB-22 | R5728893 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 23-FEB-22 | R5728893 |
| Uranium (U)-Total | 0.000593 | <DL | 0.0050 | mg/L | | 23-FEB-22 | R5728893 |
| Vanadium (V)-Total | 0.00085 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Zinc (Zn)-Total | 0.0055 | <T | 0.0030 | mg/L | | 23-FEB-22 | R5728893 |
| Zirconium (Zr)-Total | 0.000392 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728893 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 23-FEB-22 | R5728517 |
| Aluminum (Al)-Dissolved | 0.0124 | <T | 0.0050 | mg/L | | 23-FEB-22 | R5728898 |
| Antimony (Sb)-Dissolved | 0.000055 | <DL | 0.00060 | mg/L | | 23-FEB-22 | R5728898 |
| Arsenic (As)-Dissolved | 0.000928 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Barium (Ba)-Dissolved | 0.0184 | | 0.010 | mg/L | | 23-FEB-22 | R5728898 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Boron (B)-Dissolved | 0.0125 | <DL | 0.050 | mg/L | | 23-FEB-22 | R5728898 |
| Cadmium (Cd)-Dissolved | 0.0000020 | <DL | 0.000017 | mg/L | | 23-FEB-22 | R5728898 |
| Calcium (Ca)-Dissolved | 46.3 | | 0.20 | mg/L | | 23-FEB-22 | R5728898 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 23-FEB-22 | R5728898 |
| Chromium (Cr)-Dissolved | 0.00019 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Cobalt (Co)-Dissolved | 0.000120 | <DL | 0.00050 | mg/L | | 23-FEB-22 | R5728898 |
| Copper (Cu)-Dissolved | 0.00052 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Iron (Fe)-Dissolved | 0.690 | | 0.020 | mg/L | | 23-FEB-22 | R5728898 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 23-FEB-22 | R5728898 |
| Lithium (Li)-Dissolved | 0.0070 | <DL | 0.050 | mg/L | | 23-FEB-22 | R5728898 |
| Magnesium (Mg)-Dissolved | 19.3 | | 0.020 | mg/L | | 23-FEB-22 | R5728898 |
| Manganese (Mn)-Dissolved | 0.00228 | | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 24-FEB-22 | R5729002 |
| Molybdenum (Mo)-Dissolved | 0.000140 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Nickel (Ni)-Dissolved | 0.00134 | <DL | 0.0020 | mg/L | | 23-FEB-22 | R5728898 |
| Phosphorus (P)-Dissolved | 0.065 | | 0.050 | mg/L | | 23-FEB-22 | R5728898 |
| Potassium (K)-Dissolved | 1.93 | | 0.50 | mg/L | | 23-FEB-22 | R5728898 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2686956-3 SW22A_SW_20220208 Sampled By: Client on 16-FEB-22 @ 10:20 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Rubidium (Rb)-Dissolved | 0.00151 | | 0.00020 | mg/L | | 23-FEB-22 | R5728898 |
| Selenium (Se)-Dissolved | 0.000165 | <T | 0.000050 | mg/L | | 23-FEB-22 | R5728898 |
| Silicon (Si)-Dissolved | 7.74 | | 0.050 | mg/L | | 23-FEB-22 | R5728898 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 23-FEB-22 | R5728898 |
| Sodium (Na)-Dissolved | 6.61 | | 0.10 | mg/L | | 23-FEB-22 | R5728898 |
| Strontium (Sr)-Dissolved | 0.110 | | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Sulfur (S)-Dissolved | 3.0 | | 0.50 | mg/L | | 23-FEB-22 | R5728898 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 23-FEB-22 | R5728898 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 23-FEB-22 | R5728898 |
| Tin (Sn)-Dissolved | 0.000050 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Titanium (Ti)-Dissolved | 0.00076 | <DL | 0.0020 | mg/L | | 23-FEB-22 | R5728898 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 23-FEB-22 | R5728898 |
| Uranium (U)-Dissolved | 0.000556 | <DL | 0.0050 | mg/L | | 23-FEB-22 | R5728898 |
| Vanadium (V)-Dissolved | 0.00046 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Zinc (Zn)-Dissolved | 0.0020 | <DL | 0.0030 | mg/L | | 23-FEB-22 | R5728898 |
| Zirconium (Zr)-Dissolved | 0.000344 | <DL | 0.0010 | mg/L | | 23-FEB-22 | R5728898 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 4.1 | | 2.0 | mg/L | | 18-FEB-22 | R5728667 |
| Chemical Oxygen Demand | 91 | | 10 | mg/L | 18-FEB-22 | 22-FEB-22 | R5728280 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 24-FEB-22 | 24-FEB-22 | R5728980 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0062 | | 0.0062 | Bq/L | 03-MAR-22 | 16-MAR-22 | R5730543 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------|-------------------------|-----------|-----------------------------|
| Method Blank | Ammonia, Total (as N) | B | L2686956-2, -3 |
| Matrix Spike | Chloride (Cl) | MS-B | L2686956-1, -2, -3 |
| Matrix Spike | Nitrite (as N) | MS-B | L2686956-1, -2, -3 |
| Matrix Spike | Nitrate (as N) | MS-B | L2686956-1, -2, -3 |
| Matrix Spike | Sulfate (SO4) | MS-B | L2686956-1, -2, -3 |
| Matrix Spike | Total Kjeldahl Nitrogen | MS-B | L2686956-1, -2, -3 |
| Matrix Spike | Total Organic Carbon | MS-B | L2686956-1, -2, -3 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|--|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| B | Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable. |
| DLM | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|----------|--|--|
| ACY-MISA-TB | Effluent | Acidity (as CaCO3) | APHA 2310 B-POTENTIOMETRIC TITRATION |
| Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample. | | | |
| ALK-MISA-TB | Effluent | Alkalinity, Total (as CaCO3) | APHA 2320 B-Auto-Pot. Titration |
| This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. | | | |
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
| All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation. | | | |
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
| This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis. | | | |
| CN-T-MISA-CFA-WT | Effluent | Total Cyanide by CFA | ISO 14403-2:2012 (modified) |
| This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. | | | |
| Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero. | | | |
| CN-WAD-MISA-CFA-WT | Effluent | Weak Acid Dissociable Cyanide by CFA | APHA 4500-CN CYANIDE (modified) |
| This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis. | | | |
| COD-TB | Water | Chemical Oxygen Demand | APHA 5220D |
| This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method. | | | |
| COLOUR-TB | Water | Colour, True | APHA 2120 C |
| True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard. | | | |
| DOC-WT | Effluent | Dissolved Organic Carbon for MISA | APHA 5310 B-Instrumental |
| | | Conductivity (EC) | APHA 2510 B-ELECTRODE |

Reference Information

| | | | |
|--|----------|-------------------------------------|--|
| EC-MISA-TB | Effluent | | |
| This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode. | | | |
| F-IC-N-TB | Water | Fluoride in Water by IC | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| HARDNESS-CALC-TB | Effluent | Hardness (as CaCO ₃) | CALCULATION |
| HG-DIS-WT | Effluent | Mercury (Hg)-Dissolved for MISA | SW846 7470A |
| HG-TOT-WT | Effluent | Mercury (Hg)-Total for MISA | SW846 7470A |
| MET-D-MISA-TB | Effluent | Dissolved Metals in Water (MISA) | APHA 3030B/6020B (mod) |
| Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS. | | | |
| Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method. | | | |
| MET-T-MISA-TB | Effluent | Total Metals in Water (MISA) | EPA 200.2/6020B (mod) |
| Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS. | | | |
| Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method. | | | |
| NH3-MISA-F-TB | Effluent | Ammonia by Discrete Analyzer | catnr 157/158 062217/99321057 (modified) |
| Ammonia is determined by Flow-injection analysis with fluorescence detection | | | |
| NH3-UNION-CALC-TB | Effluent | Un-ionized ammonia | Calculation |
| NO2-MISA-IC-TB | Effluent | Nitrite in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| NO3-MISA-IC-TB | Effluent | Nitrate in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| OGG-TOT-WT | Effluent | Oil and Grease, Total for MISA | APHA 5520 B-Hexane Gravimetric |
| PH-CLIENT-TB | Water | pH | Result supplied by Client |
| PH-MISA-TB | Effluent | pH | APHA 4500-H-ELECTRODE |
| This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode | | | |
| PO4-DO-COL-TB | Water | Dissolved Orthophosphate | APHA 4500-P B, F, G (modified) |
| Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection. | | | |
| RA226-MMER-FC | Water | Ra226 by Alpha Scint, MDC=0.01 Bq/L | EPA 903.1 |
| SO4-MISA-IC-TB | Effluent | Sulfate in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| TDS-MISA-TB | Effluent | Total Dissolved Solids | APHA 2540 C (modified) |
| Aqueous matrices are analyzed using gravimetry and evaporation | | | |
| TEMP-CLIENT-TB | Water | Temperature | Result supplied by Client |
| TKN-F-TB | Water | TKN in Water by Fluorescence | catnr 157/158, 062818/99334821 |

Reference Information

Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection

| | | | |
|--------|-------|----------------------|------------|
| TOC-WT | Water | Total Organic Carbon | APHA 5310B |
|--------|-------|----------------------|------------|

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

| | | | |
|-------------|----------|------------------------|------------------------|
| TSS-MISA-TB | Effluent | Total Suspended Solids | APHA 2540 D (modified) |
|-------------|----------|------------------------|------------------------|

Aqueous matrices are analyzed using gravimetry

| | | | |
|--------------|-------|-----------|--------------------------|
| TURBIDITY-TB | Water | Turbidity | APHA 2130 B-Nephelometer |
|--------------|-------|-----------|--------------------------|

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |
| FC | ALS ENVIRONMENTAL - FORT COLLINS, COLORADO, USA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

Page 1 of 13

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| BOD-TB | | Water | | | | | | |
| Batch | R5728667 | | | | | | | |
| WG3697761-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 102.9 | | % | | 85-115 | 18-FEB-22 |
| WG3697761-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 18-FEB-22 |
| CL-L-IC-N-TB | | Water | | | | | | |
| Batch | R5728002 | | | | | | | |
| WG3697835-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 99.4 | | % | | 90-110 | 18-FEB-22 |
| WG3697835-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 18-FEB-22 |
| WG3697835-4 | MS | L2686951-3 | | | | | | |
| Chloride (Cl) | | | N/A | MS-B | % | | - | 18-FEB-22 |
| COD-TB | | Water | | | | | | |
| Batch | R5728280 | | | | | | | |
| WG3697866-3 | DUP | L2686757-11 | | | | | | |
| Chemical Oxygen Demand | | 213 | 218 | | mg/L | 2.4 | 20 | 22-FEB-22 |
| WG3697866-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 104.5 | | % | | 85-115 | 22-FEB-22 |
| WG3697866-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 22-FEB-22 |
| WG3697866-4 | MS | L2686787-1 | | | | | | |
| Chemical Oxygen Demand | | | 105.9 | | % | | 75-125 | 22-FEB-22 |
| COLOUR-TB | | Water | | | | | | |
| Batch | R5727705 | | | | | | | |
| WG3697829-3 | DUP | L2686951-1 | | | | | | |
| Color, True | | 58.3 | 59.2 | | CU | 1.7 | 20 | 18-FEB-22 |
| WG3697829-2 | LCS | | | | | | | |
| Color, True | | | 102.0 | | % | | 85-115 | 18-FEB-22 |
| WG3697829-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 18-FEB-22 |
| F-IC-N-TB | | Water | | | | | | |
| Batch | R5728002 | | | | | | | |
| WG3697835-2 | LCS | | | | | | | |
| Fluoride (F) | | | 98.7 | | % | | 90-110 | 18-FEB-22 |
| WG3697835-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 18-FEB-22 |
| PO4-DO-COL-TB | | Water | | | | | | |



Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

Page 2 of 13

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|-----------------|-------------------|---------|-----------|-------|-----|--------|-----------|
| PO4-DO-COL-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5728197 | | | | | | | |
| WG3697832-3 | DUP | L2686951-1 | | | | | | |
| Orthophosphate-Dissolved (as P) | | 0.0088 | 0.0096 | | mg/L | 8.7 | 20 | 22-FEB-22 |
| WG3697832-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 96.2 | | % | | 80-120 | 22-FEB-22 |
| WG3697832-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0030 | | mg/L | | 0.003 | 22-FEB-22 |
| WG3697832-4 | MS | L2686951-2 | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 102.9 | | % | | 70-130 | 22-FEB-22 |
| TKN-F-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5729072 | | | | | | | |
| WG3697862-3 | DUP | L2686750-3 | | | | | | |
| Total Kjeldahl Nitrogen | | 20.9 | 22.3 | | mg/L | 6.5 | 20 | 24-FEB-22 |
| WG3697862-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 101.5 | | % | | 75-125 | 24-FEB-22 |
| WG3697862-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 24-FEB-22 |
| WG3697862-4 | MS | L2686757-1 | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 24-FEB-22 |
| TOC-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5728915 | | | | | | | |
| WG3698393-3 | DUP | L2686909-5 | | | | | | |
| Total Organic Carbon | | 13.3 | 13.5 | | mg/L | 1.4 | 20 | 23-FEB-22 |
| WG3698393-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 99.0 | | % | | 80-120 | 23-FEB-22 |
| WG3698393-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 23-FEB-22 |
| WG3698393-4 | MS | L2686909-5 | | | | | | |
| Total Organic Carbon | | | N/A | MS-B | % | | - | 23-FEB-22 |
| TURBIDITY-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5727635 | | | | | | | |
| WG3697937-3 | DUP | L2686951-4 | | | | | | |
| Turbidity | | 1.01 | 0.98 | | NTU | 3.0 | 15 | 18-FEB-22 |
| WG3697937-2 | LCS | | | | | | | |
| Turbidity | | | 101.5 | | % | | 85-115 | 18-FEB-22 |
| WG3697937-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 18-FEB-22 |
| ACY-MISA-TB | Effluent | | | | | | | |



Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|-------------------|---------|-----------|-------|-----|--------|-----------|
| ACY-MISA-TB | | Effluent | | | | | | |
| Batch | R5728403 | | | | | | | |
| WG3697824-3 | DUP | L2686956-2 | | | | | | |
| Acidity (as CaCO3) | | 6.2 | 6.2 | | mg/L | 1.0 | 20 | 22-FEB-22 |
| WG3697824-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 85.6 | | % | | 85-115 | 22-FEB-22 |
| WG3697824-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | 2.4 | | mg/L | | 3 | 22-FEB-22 |
| ALK-MISA-TB | | Effluent | | | | | | |
| Batch | R5728155 | | | | | | | |
| WG3697823-2 | LCS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 102.2 | | % | | 85-115 | 18-FEB-22 |
| WG3697823-1 | MB | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | <0.2 | | mg/L | | 2 | 18-FEB-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 18-FEB-22 |
| CN-FREE-MISA-CFA-WT | | Effluent | | | | | | |
| Batch | R5728513 | | | | | | | |
| WG3698612-3 | DUP | L2686951-4 | | | | | | |
| Cyanide, Free | | 0.0006 | 0.0007 | RPD-NA | mg/L | N/A | 20 | 22-FEB-22 |
| WG3698612-2 | LCS | | | | | | | |
| Cyanide, Free | | | 109.8 | | % | | 80-120 | 22-FEB-22 |
| WG3698612-1 | MB | | | | | | | |
| Cyanide, Free | | | <0.0001 | | mg/L | | 0.002 | 22-FEB-22 |
| WG3698612-4 | MS | L2686951-4 | | | | | | |
| Cyanide, Free | | | 108.8 | | % | | 75-125 | 22-FEB-22 |
| CN-T-MISA-CFA-WT | | Effluent | | | | | | |
| Batch | R5728513 | | | | | | | |
| WG3698612-3 | DUP | L2686951-4 | | | | | | |
| Cyanide, Total | | 0.0012 | 0.0008 | RPD-NA | mg/L | N/A | 20 | 22-FEB-22 |
| WG3698612-2 | LCS | | | | | | | |
| Cyanide, Total | | | 101.5 | | % | | 80-120 | 22-FEB-22 |
| WG3698612-1 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 22-FEB-22 |
| WG3698612-4 | MS | L2686951-4 | | | | | | |
| Cyanide, Total | | | 95.5 | | % | | 75-125 | 22-FEB-22 |
| CN-WAD-MISA-CFA-WT | | Effluent | | | | | | |



Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|-----------|-----------|-------|-----|---------|-----------|
| CN-WAD-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5728513 | | | | | | | |
| WG3698612-3 | DUP | L2686951-4 | | | | | | |
| Cyanide, Weak Acid Diss | | 0.0005 | 0.0004 | RPD-NA | mg/L | N/A | 20 | 22-FEB-22 |
| WG3698612-2 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 109.6 | | % | | 80-120 | 22-FEB-22 |
| WG3698612-1 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 22-FEB-22 |
| WG3698612-4 | MS | L2686951-4 | | | | | | |
| Cyanide, Weak Acid Diss | | | 107.5 | | % | | 75-125 | 22-FEB-22 |
| DOC-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5728906 | | | | | | | |
| WG3698755-3 | DUP | WG3698755-5 | | | | | | |
| Dissolved Organic Carbon | | <0.50 | <0.50 | RPD-NA | mg/L | N/A | 25 | 23-FEB-22 |
| WG3698755-2 | LCS | | | | | | | |
| Dissolved Organic Carbon | | | 105.0 | | % | | 70-130 | 23-FEB-22 |
| WG3698755-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 23-FEB-22 |
| Batch | R5729350 | | | | | | | |
| WG3699353-3 | DUP | WG3699353-5 | | | | | | |
| Dissolved Organic Carbon | | <0.50 | <0.50 | RPD-NA | mg/L | N/A | 25 | 25-FEB-22 |
| WG3699353-2 | LCS | | | | | | | |
| Dissolved Organic Carbon | | | 103.8 | | % | | 70-130 | 25-FEB-22 |
| WG3699353-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 25-FEB-22 |
| EC-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5728155 | | | | | | | |
| WG3697823-2 | LCS | | | | | | | |
| Conductivity (EC) | | | 101.6 | | % | | 90-110 | 18-FEB-22 |
| WG3697823-1 | MB | | | | | | | |
| Conductivity (EC) | | | 0.2 | | uS/cm | | 2 | 18-FEB-22 |
| HG-DIS-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5729002 | | | | | | | |
| WG3698423-3 | DUP | L2686951-1 | | | | | | |
| Mercury (Hg)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 24-FEB-22 |
| WG3698423-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 98.6 | | % | | 80-120 | 24-FEB-22 |
| WG3698423-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.00003 | 24-FEB-22 |



Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|-----------|-----------|-------|-----|---------|-----------|
| HG-DIS-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5729002 | | | | | | | |
| WG3698423-4 MS | | L2686951-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 94.6 | | % | | 70-130 | 24-FEB-22 |
| HG-TOT-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5729003 | | | | | | | |
| WG3698424-3 DUP | | L2686951-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 24-FEB-22 |
| WG3698424-2 LCS | | | | | | | | |
| Mercury (Hg)-Total | | | 94.8 | | % | | 80-120 | 24-FEB-22 |
| WG3698424-1 MB | | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.00003 | 24-FEB-22 |
| WG3698424-4 MS | | L2686951-2 | | | | | | |
| Mercury (Hg)-Total | | | 94.6 | | % | | 70-130 | 24-FEB-22 |
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5728898 | | | | | | | |
| WG3698886-2 LCS | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 101.3 | | % | | 80-120 | 23-FEB-22 |
| Antimony (Sb)-Dissolved | | | 104.4 | | % | | 80-120 | 23-FEB-22 |
| Arsenic (As)-Dissolved | | | 102.2 | | % | | 80-120 | 23-FEB-22 |
| Barium (Ba)-Dissolved | | | 102.5 | | % | | 80-120 | 23-FEB-22 |
| Beryllium (Be)-Dissolved | | | 100.7 | | % | | 80-120 | 23-FEB-22 |
| Bismuth (Bi)-Dissolved | | | 102.0 | | % | | 80-120 | 23-FEB-22 |
| Boron (B)-Dissolved | | | 94.0 | | % | | 80-120 | 23-FEB-22 |
| Cadmium (Cd)-Dissolved | | | 99.6 | | % | | 80-120 | 23-FEB-22 |
| Calcium (Ca)-Dissolved | | | 97.9 | | % | | 80-120 | 23-FEB-22 |
| Cesium (Cs)-Dissolved | | | 106.1 | | % | | 80-120 | 23-FEB-22 |
| Chromium (Cr)-Dissolved | | | 99.9 | | % | | 80-120 | 23-FEB-22 |
| Cobalt (Co)-Dissolved | | | 98.9 | | % | | 80-120 | 23-FEB-22 |
| Copper (Cu)-Dissolved | | | 97.8 | | % | | 80-120 | 23-FEB-22 |
| Iron (Fe)-Dissolved | | | 104.4 | | % | | 80-120 | 23-FEB-22 |
| Lead (Pb)-Dissolved | | | 99.96 | | % | | 80-120 | 23-FEB-22 |
| Lithium (Li)-Dissolved | | | 102.4 | | % | | 80-120 | 23-FEB-22 |
| Magnesium (Mg)-Dissolved | | | 98.8 | | % | | 80-120 | 23-FEB-22 |
| Manganese (Mn)-Dissolved | | | 100.6 | | % | | 80-120 | 23-FEB-22 |
| Molybdenum (Mo)-Dissolved | | | 97.9 | | % | | 80-120 | 23-FEB-22 |
| Nickel (Ni)-Dissolved | | | 98.3 | | % | | 80-120 | 23-FEB-22 |



Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5728898 | | | | | | | |
| WG3698886-2 LCS | | | | | | | | |
| Phosphorus (P)-Dissolved | | | 105.2 | | % | | 70-130 | 23-FEB-22 |
| Potassium (K)-Dissolved | | | 105.8 | | % | | 80-120 | 23-FEB-22 |
| Rubidium (Rb)-Dissolved | | | 102.5 | | % | | 80-120 | 23-FEB-22 |
| Selenium (Se)-Dissolved | | | 102.5 | | % | | 80-120 | 23-FEB-22 |
| Silicon (Si)-Dissolved | | | 101.2 | | % | | 60-140 | 23-FEB-22 |
| Silver (Ag)-Dissolved | | | 97.0 | | % | | 80-120 | 23-FEB-22 |
| Sodium (Na)-Dissolved | | | 100.3 | | % | | 80-120 | 23-FEB-22 |
| Strontium (Sr)-Dissolved | | | 97.0 | | % | | 80-120 | 23-FEB-22 |
| Sulfur (S)-Dissolved | | | 102.7 | | % | | 80-120 | 23-FEB-22 |
| Tellurium (Te)-Dissolved | | | 104.5 | | % | | 80-120 | 23-FEB-22 |
| Thallium (Tl)-Dissolved | | | 100.9 | | % | | 80-120 | 23-FEB-22 |
| Thorium (Th)-Dissolved | | | 97.2 | | % | | 80-120 | 23-FEB-22 |
| Tin (Sn)-Dissolved | | | 101.8 | | % | | 80-120 | 23-FEB-22 |
| Titanium (Ti)-Dissolved | | | 99.6 | | % | | 80-120 | 23-FEB-22 |
| Tungsten (W)-Dissolved | | | 102.5 | | % | | 80-120 | 23-FEB-22 |
| Uranium (U)-Dissolved | | | 97.3 | | % | | 80-120 | 23-FEB-22 |
| Vanadium (V)-Dissolved | | | 101.1 | | % | | 80-120 | 23-FEB-22 |
| Zinc (Zn)-Dissolved | | | 97.0 | | % | | 80-120 | 23-FEB-22 |
| Zirconium (Zr)-Dissolved | | | 94.3 | | % | | 80-120 | 23-FEB-22 |
| WG3698886-1 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 0.0002 | | mg/L | | 0.005 | 23-FEB-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 23-FEB-22 |
| Arsenic (As)-Dissolved | | | <0.0000002 | | mg/L | | 0.001 | 23-FEB-22 |
| Barium (Ba)-Dissolved | | | <0.000005 | | mg/L | | 0.01 | 23-FEB-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 23-FEB-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 23-FEB-22 |
| Boron (B)-Dissolved | | | <0.0005 | | mg/L | | 0.05 | 23-FEB-22 |
| Cadmium (Cd)-Dissolved | | | 0.0000010 | | mg/L | | 0.000017 | 23-FEB-22 |
| Calcium (Ca)-Dissolved | | | <0.002 | | mg/L | | 0.2 | 23-FEB-22 |
| Cesium (Cs)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 23-FEB-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 23-FEB-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 23-FEB-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 23-FEB-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 23-FEB-22 |



Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|------------|-----------|-------|-----|---------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5728898 | | | | | | | |
| WG3698886-1 | MB | | | | | | | |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 23-FEB-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 23-FEB-22 |
| Magnesium (Mg)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 23-FEB-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 23-FEB-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 23-FEB-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 23-FEB-22 |
| Phosphorus (P)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 23-FEB-22 |
| Potassium (K)-Dissolved | | | <0.01 | | mg/L | | 0.5 | 23-FEB-22 |
| Rubidium (Rb)-Dissolved | | | <0.000002 | | mg/L | | 0.0002 | 23-FEB-22 |
| Selenium (Se)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 23-FEB-22 |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 23-FEB-22 |
| Silver (Ag)-Dissolved | | | <0.0000005 | | mg/L | | 0.0001 | 23-FEB-22 |
| Sodium (Na)-Dissolved | | | <0.005 | | mg/L | | 0.1 | 23-FEB-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 23-FEB-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 23-FEB-22 |
| Tellurium (Te)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 23-FEB-22 |
| Thallium (Tl)-Dissolved | | | <0.000002 | | mg/L | | 0.0003 | 23-FEB-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 23-FEB-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 23-FEB-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 23-FEB-22 |
| Tungsten (W)-Dissolved | | | <0.000002 | | mg/L | | 0.01 | 23-FEB-22 |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.005 | 23-FEB-22 |
| Vanadium (V)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 23-FEB-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.003 | 23-FEB-22 |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 23-FEB-22 |

| | | | | | | | | |
|----------------------|-----------------|-----------------|-------|--|---|--|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5728893 | | | | | | | |
| WG3698370-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 102.8 | | % | | 80-120 | 23-FEB-22 |
| Antimony (Sb)-Total | | | 103.3 | | % | | 80-120 | 23-FEB-22 |
| Arsenic (As)-Total | | | 105.2 | | % | | 80-120 | 23-FEB-22 |
| Barium (Ba)-Total | | | 103.3 | | % | | 80-120 | 23-FEB-22 |
| Beryllium (Be)-Total | | | 97.0 | | % | | 80-120 | 23-FEB-22 |
| Bismuth (Bi)-Total | | | 108.8 | | % | | 80-120 | 23-FEB-22 |



Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5728893 | | | | | | | |
| WG3698370-2 | LCS | | | | | | | |
| Bismuth (Bi)-Total | | | 108.8 | | % | | 80-120 | 23-FEB-22 |
| Boron (B)-Total | | | 98.5 | | % | | 80-120 | 23-FEB-22 |
| Cadmium (Cd)-Total | | | 100.4 | | % | | 80-120 | 23-FEB-22 |
| Calcium (Ca)-Total | | | 102.0 | | % | | 80-120 | 23-FEB-22 |
| Cesium (Cs)-Total | | | 105.3 | | % | | 80-120 | 23-FEB-22 |
| Chromium (Cr)-Total | | | 101.4 | | % | | 80-120 | 23-FEB-22 |
| Cobalt (Co)-Total | | | 101.9 | | % | | 80-120 | 23-FEB-22 |
| Copper (Cu)-Total | | | 99.9 | | % | | 80-120 | 23-FEB-22 |
| Iron (Fe)-Total | | | 104.9 | | % | | 80-120 | 23-FEB-22 |
| Lead (Pb)-Total | | | 105.8 | | % | | 80-120 | 23-FEB-22 |
| Lithium (Li)-Total | | | 98.9 | | % | | 80-120 | 23-FEB-22 |
| Magnesium (Mg)-Total | | | 103.3 | | % | | 80-120 | 23-FEB-22 |
| Manganese (Mn)-Total | | | 103.6 | | % | | 80-120 | 23-FEB-22 |
| Molybdenum (Mo)-Total | | | 103.1 | | % | | 80-120 | 23-FEB-22 |
| Nickel (Ni)-Total | | | 101.4 | | % | | 80-120 | 23-FEB-22 |
| Phosphorus (P)-Total | | | 105.2 | | % | | 80-120 | 23-FEB-22 |
| Potassium (K)-Total | | | 108.4 | | % | | 80-120 | 23-FEB-22 |
| Rubidium (Rb)-Total | | | 104.2 | | % | | 80-120 | 23-FEB-22 |
| Selenium (Se)-Total | | | 103.7 | | % | | 80-120 | 23-FEB-22 |
| Silicon (Si)-Total | | | 104.7 | | % | | 80-120 | 23-FEB-22 |
| Silver (Ag)-Total | | | 95.1 | | % | | 80-120 | 23-FEB-22 |
| Sodium (Na)-Total | | | 102.4 | | % | | 80-120 | 23-FEB-22 |
| Strontium (Sr)-Total | | | 98.7 | | % | | 80-120 | 23-FEB-22 |
| Sulfur (S)-Total | | | 88.9 | | % | | 80-120 | 23-FEB-22 |
| Tellurium (Te)-Total | | | 104.9 | | % | | 80-120 | 23-FEB-22 |
| Thallium (Tl)-Total | | | 106.9 | | % | | 80-120 | 23-FEB-22 |
| Thorium (Th)-Total | | | 102.1 | | % | | 80-120 | 23-FEB-22 |
| Tin (Sn)-Total | | | 102.5 | | % | | 80-120 | 23-FEB-22 |
| Titanium (Ti)-Total | | | 103.1 | | % | | 80-120 | 23-FEB-22 |
| Tungsten (W)-Total | | | 110.6 | | % | | 80-120 | 23-FEB-22 |
| Uranium (U)-Total | | | 101.2 | | % | | 80-120 | 23-FEB-22 |
| Vanadium (V)-Total | | | 104.6 | | % | | 80-120 | 23-FEB-22 |
| Zinc (Zn)-Total | | | 101.7 | | % | | 80-120 | 23-FEB-22 |



Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5728893 | | | | | | | |
| WG3698370-2 | LCS | | | | | | | |
| Zirconium (Zr)-Total | | | 97.4 | | % | | 80-120 | 23-FEB-22 |
| WG3698370-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | 0.0010 | | mg/L | | 0.005 | 23-FEB-22 |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 23-FEB-22 |
| Arsenic (As)-Total | | | <0.00001 | | mg/L | | 0.001 | 23-FEB-22 |
| Barium (Ba)-Total | | | <0.00001 | | mg/L | | 0.01 | 23-FEB-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 23-FEB-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 23-FEB-22 |
| Boron (B)-Total | | | <0.0005 | | mg/L | | 0.05 | 23-FEB-22 |
| Cadmium (Cd)-Total | | | 0.000001 | | mg/L | | 0.000017 | 23-FEB-22 |
| Calcium (Ca)-Total | | | <0.002 | | mg/L | | 0.2 | 23-FEB-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 23-FEB-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 23-FEB-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 23-FEB-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 23-FEB-22 |
| Iron (Fe)-Total | | | <0.0005 | | mg/L | | 0.02 | 23-FEB-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 23-FEB-22 |
| Lithium (Li)-Total | | | 0.0002 | | mg/L | | 0.05 | 23-FEB-22 |
| Magnesium (Mg)-Total | | | <0.0002 | | mg/L | | 0.02 | 23-FEB-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 23-FEB-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 23-FEB-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 23-FEB-22 |
| Phosphorus (P)-Total | | | <0.005 | | mg/L | | 0.05 | 23-FEB-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 23-FEB-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 23-FEB-22 |
| Selenium (Se)-Total | | | 0.000010 | | mg/L | | 0.00005 | 23-FEB-22 |
| Silicon (Si)-Total | | | 0.026 | | mg/L | | 0.1 | 23-FEB-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 23-FEB-22 |
| Sodium (Na)-Total | | | <0.005 | | mg/L | | 0.1 | 23-FEB-22 |
| Strontium (Sr)-Total | | | <0.000005 | | mg/L | | 0.001 | 23-FEB-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 23-FEB-22 |
| Tellurium (Te)-Total | | | 0.00002 | | mg/L | | 0.001 | 23-FEB-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 23-FEB-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 23-FEB-22 |



Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|------------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5728893 | | | | | | | |
| WG3698370-1 | MB | | | | | | | |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 23-FEB-22 |
| Titanium (Ti)-Total | | | 0.00002 | | mg/L | | 0.002 | 23-FEB-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 23-FEB-22 |
| Uranium (U)-Total | | | <0.000000E | | mg/L | | 0.005 | 23-FEB-22 |
| Vanadium (V)-Total | | | 0.00005 | | mg/L | | 0.001 | 23-FEB-22 |
| Zinc (Zn)-Total | | | 0.0005 | | mg/L | | 0.003 | 23-FEB-22 |
| Zirconium (Zr)-Total | | | 0.000002 | | mg/L | | 0.001 | 23-FEB-22 |
| NH3-MISA-F-TB | | Effluent | | | | | | |
| Batch | R5727670 | | | | | | | |
| WG3697859-2 | LCS | | | | | | | |
| Ammonia, Total (as N) | | | 97.4 | | % | | 85-115 | 18-FEB-22 |
| WG3697859-1 | MB | | | | | | | |
| Ammonia, Total (as N) | | | 0.006 | B | mg/L | | 0.005 | 18-FEB-22 |
| Batch | R5729580 | | | | | | | |
| WG3698445-3 | DUP | L2686636-12 | | | | | | |
| Ammonia, Total (as N) | | 0.012 | 0.012 | | mg/L | 7.8 | 20 | 25-FEB-22 |
| WG3698445-2 | LCS | | | | | | | |
| Ammonia, Total (as N) | | | 99.9 | | % | | 85-115 | 25-FEB-22 |
| WG3698445-1 | MB | | | | | | | |
| Ammonia, Total (as N) | | | 0.002 | | mg/L | | 0.005 | 25-FEB-22 |
| WG3698445-4 | MS | L2686956-1 | | | | | | |
| Ammonia, Total (as N) | | | 104.0 | | % | | 75-125 | 25-FEB-22 |
| NO2-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5728002 | | | | | | | |
| WG3697835-2 | LCS | | | | | | | |
| Nitrite (as N) | | | 95.4 | | % | | 90-110 | 18-FEB-22 |
| WG3697835-1 | MB | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 18-FEB-22 |
| WG3697835-4 | MS | L2686951-3 | | | | | | |
| Nitrite (as N) | | | N/A | MS-B | % | | - | 18-FEB-22 |
| NO3-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5728002 | | | | | | | |
| WG3697835-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 98.5 | | % | | 90-110 | 18-FEB-22 |
| WG3697835-1 | MB | | | | | | | |
| Nitrate (as N) | | | <0.002 | | mg/L | | 0.02 | 18-FEB-22 |



Environmental

Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|----------|------------|--------|-----------|-------|-----|---------|-----------|
| NO3-MISA-IC-TB | | | | | | | | |
| Effluent | | | | | | | | |
| Batch | R5728002 | | | | | | | |
| WG3697835-4 | MS | L2686951-3 | | | | | | |
| Nitrate (as N) | | | N/A | MS-B | % | | - | 18-FEB-22 |
| OGG-TOT-WT | | | | | | | | |
| Effluent | | | | | | | | |
| Batch | R5728980 | | | | | | | |
| WG3699258-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 93.6 | | % | | 50-150 | 24-FEB-22 |
| WG3699258-1 | MB | | | | | | | |
| Oil and Grease, Total | | | 0.2 | | mg/L | | 1 | 24-FEB-22 |
| PH-MISA-TB | | | | | | | | |
| Effluent | | | | | | | | |
| Batch | R5728155 | | | | | | | |
| WG3697823-2 | LCS | | | | | | | |
| pH | | | 6.93 | | pH | | 6.9-7.1 | 18-FEB-22 |
| SO4-MISA-IC-TB | | | | | | | | |
| Effluent | | | | | | | | |
| Batch | R5728002 | | | | | | | |
| WG3697835-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 100.8 | | % | | 90-110 | 18-FEB-22 |
| WG3697835-1 | MB | | | | | | | |
| Sulfate (SO4) | | | <0.05 | | mg/L | | 0.3 | 18-FEB-22 |
| WG3697835-4 | MS | L2686951-3 | | | | | | |
| Sulfate (SO4) | | | N/A | MS-B | % | | - | 18-FEB-22 |
| TDS-MISA-TB | | | | | | | | |
| Effluent | | | | | | | | |
| Batch | R5729162 | | | | | | | |
| WG3698894-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 90.5 | | % | | 85-115 | 23-FEB-22 |
| WG3698894-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <2 | | mg/L | | 10 | 23-FEB-22 |
| TSS-MISA-TB | | | | | | | | |
| Effluent | | | | | | | | |
| Batch | R5729161 | | | | | | | |
| WG3698893-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 87.8 | | % | | 85-115 | 23-FEB-22 |
| WG3698893-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 23-FEB-22 |

Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| B | Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon for MISA | | | | | | | |
| | 1 | 17-FEB-22 12:00 | 23-FEB-22 00:00 | 3 | 6 | days | EHT |
| | 2 | 16-FEB-22 14:05 | 24-FEB-22 00:00 | 3 | 7 | days | EHT |
| | 3 | 16-FEB-22 10:20 | 24-FEB-22 00:00 | 3 | 8 | days | EHT |

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2686956 were received on 18-FEB-22 09:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2686956-COFC

AS

CHAIN OF CUSTODY RECORD - ALS-446096489

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 2/17/2022 3:34:00 PM COC Number: ALS-446096489 | | | | | | Containers SW Kit Re-226 Bottle | | | | | | | | | |
|---|------|------|-------|------------------|--------|---|---------------|--|--|--|--|--|--|--|----|
| | | | | | | Filtered N N | | | | | | | | | |
| | | | | | | Preservatives NG-SW-P-TB RA226-MMER-BE | | | | | | | | | |
| Sample Code | DO | PH | TEMP | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | |
| TB_SW_20220208 | | | | 02/17/2022 12:00 | SW | X | | | | | | | | | 11 |
| SW21A_SW_20220208 | 3.45 | 6.61 | 0.37 | 02/16/2022 14:05 | SW | X | | | | | | | | | 11 |
| SW22A_SW_20220208 | 9.71 | 8.03 | -0.51 | 02/16/2022 10:20 | SW | X | X | | | | | | | | 12 |

Drinking Water (DW) Samples
(client use)

Are samples taken from a Regulated DW System? Yes No

Sample Receipt Details (ALS use only)

Cooling Method: None Ice Ice Packs Frozen Cooling Initiated

Submission Comments identified on Sample Receipt Notification: Yes No

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|--------------------|----------------------|---|------|--|
| Shipped by | 2/17/2022 3:34:00 PM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by DE 2.9 | Feb 18 2022 11:00 | | | |

L2686956 DE



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 12-MAR-22
Report Date: 11-APR-22 13:57 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2691886
Project P.O. #: 4500058071
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:

<original signed by>

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|-------|-----------|-----------|----------|
| L2691886-1 FB_SW_20220308 Sampled By: Client on 08-MAR-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 0.4 | <DL | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 5.31 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 14-MAR-22 | R5743339 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 14-MAR-22 | R5743338 |
| Turbidity | <0.10 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.2 | <DL | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO3) | 0.4 | <DL | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.002 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | 0.033 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO4) | 0.10 | <DL | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 08-MAR-22 | 16-MAR-22 | R5746285 |
| Total Organic Carbon | 0.62 | | 0.50 | mg/L | | 18-MAR-22 | R5748582 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0012 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.00002 | <DL | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | 0.0000030 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0020 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 0.034 | <DL | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00030 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | <0.0005 | <W | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00002 | <DL | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2691886-1 FB_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Magnesium (Mg)-Total | 0.0004 | <DL | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | 0.00014 | <DL | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | <0.000002 | <W | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | <0.000005 | <W | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 0.090 | <DL | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 0.055 | <DL | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.000040 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | 0.00007 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.00003 | <DL | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | <0.00005 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | <0.0005 | <W | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | <0.000002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | 0.0008 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.0000020 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | 0.000020 | <DL | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0015 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 0.034 | <DL | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00011 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|----------|-----------|-----------|----------|
| L2691886-1 FB_SW_20220308 Sampled By: Client on 08-MAR-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 0.0005 | <DL | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00012 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | 0.000008 | <DL | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 0.080 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 0.045 | <DL | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.00004 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | 0.000070 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| L2691886-2 SW02_SW_20220308 Sampled By: Client on 08-MAR-22 @ 10:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 7.86 | | 0 | mg/L | | 13-MAR-22 | R5741400 |
| pH, Client Supplied | 6.09 | | 0.10 | pH | | 13-MAR-22 | R5741400 |
| Temperature, Client Supplied | 1.73 | | 0 | Degree C | | 13-MAR-22 | R5741400 |
| Physical Tests | | | | | | | |
| Color, True | 155 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 205 | | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | 121 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 6.61 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | 20.5 | | 3.0 | mg/L | | 14-MAR-22 | R5743339 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-2 SW02_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 10:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Total Dissolved Solids | 186 | | 20 | mg/L | | 14-MAR-22 | R5743338 |
| Turbidity | 4.92 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 12.4 | | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO3) | 110 | | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.444 | | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 21-MAR-22 | |
| Chloride (Cl) | 1.25 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | 0.022 | <T | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | 2.70 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO4) | 0.95 | <T | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 36.3 | DLM | 2.5 | mg/L | 15-MAR-22 | 21-MAR-22 | R5748883 |
| Total Organic Carbon | 41.9 | | 0.50 | mg/L | | 18-MAR-22 | R5748582 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.201 | | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | 0.000105 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | 0.00104 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.0223 | | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | 0.0000101 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0050 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | 0.000046 | <T | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 32.0 | | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | 0.0000310 | | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00176 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | 0.000905 | <T | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | 0.00642 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | 1.28 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00062 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | 0.0032 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 13.6 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | 0.441 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | 0.000200 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-2 SW02_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 10:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Nickel (Ni)-Total | 0.00220 | <T | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.045 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | 1.98 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | 0.00258 | | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | 0.000150 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 10.9 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | 0.000095 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 2.66 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.0545 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | 0.8 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | 0.00007 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.00342 | | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | 0.00002 | <DL | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | 0.0000705 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | 0.00045 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | 0.0275 | | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | 0.000248 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | 0.0338 | | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | 0.000080 | <DL | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.000719 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | 0.0171 | | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0040 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000270 | <T | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 28.5 | | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | 0.0000070 | <DL | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00063 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000186 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | 0.00442 | <T | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | 0.604 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | 0.00009 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | 0.0034 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 12.1 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.0953 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2691886-2 SW02_SW_20220308 Sampled By: Client on 08-MAR-22 @ 10:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Molybdenum (Mo)-Dissolved | 0.000176 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00158 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | 1.90 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | 0.00232 | | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000125 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 9.85 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | 0.0000260 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 2.47 | | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.0508 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | 0.2 | <DL | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | 0.000025 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | 0.00076 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.0000630 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00026 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | 0.0176 | | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | 0.000172 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 4.7 | | 2.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | 123 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 1.8 | | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| L2691886-3 SW03_SW_20220308 Sampled By: Client on 08-MAR-22 @ 15:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 4.2 | | 0 | mg/L | | 13-MAR-22 | R5741400 |
| pH, Client Supplied | 7 | | 0.10 | pH | | 13-MAR-22 | R5741400 |
| Temperature, Client Supplied | .28 | | 0 | Degree C | | 13-MAR-22 | R5741400 |
| Physical Tests | | | | | | | |
| Color, True | 97.7 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 380 | | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | 197 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 7.12 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | 6.5 | | 3.0 | mg/L | | 14-MAR-22 | R5743339 |
| Total Dissolved Solids | 274 | | 20 | mg/L | | 14-MAR-22 | R5743338 |
| Turbidity | 9.53 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 8.2 | | 2.0 | mg/L | | 15-MAR-22 | R5744682 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-3 SW03_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 15:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 193 | | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.106 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 21-MAR-22 | |
| Chloride (Cl) | 9.14 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | 0.063 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | 0.028 | <T | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | 1.31 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | 0.0673 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO4) | 6.65 | | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 27.9 | DLM | 2.5 | mg/L | 15-MAR-22 | 21-MAR-22 | R5748883 |
| Total Organic Carbon | 32.1 | | 0.50 | mg/L | | 18-MAR-22 | R5748582 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.222 | | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | 0.000070 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | 0.00111 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.0238 | | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | 0.0000231 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0135 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | 0.000013 | <DL | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 52.8 | | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | 0.0000280 | | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00086 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | 0.000895 | <T | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | 0.00082 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | 1.56 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00025 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | 0.0072 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 22.4 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | 0.578 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | 0.000370 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | 0.00224 | <T | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.130 | | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | 2.24 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | 0.00189 | | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-3 SW03_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 15:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Selenium (Se)-Total | 0.000165 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 8.67 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 7.34 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.125 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | 3.2 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.00701 | | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | 0.000699 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | 0.00115 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | 0.0060 | <T | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | 0.000502 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | 0.0138 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | 0.000065 | <DL | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.000903 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | 0.0161 | | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0105 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000030 | <DL | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 46.7 | | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00023 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000134 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | 0.00054 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | 0.675 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | 0.00007 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | 0.0068 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 19.6 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.00870 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | 0.000176 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00166 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | 0.075 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | 2.02 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-3 SW03_SW_20220308 Sampled By: Client on 08-MAR-22 @ 15:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Rubidium (Rb)-Dissolved | 0.00137 | | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000170 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 7.58 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 6.69 | | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.116 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | 2.6 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | 0.000020 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | 0.00134 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.000611 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00054 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | 0.0014 | <DL | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | 0.000408 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.4 | | 2.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | 84 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 2.8 | | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| L2691886-4 SW06_SW_20220308 Sampled By: Client on 08-MAR-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 121 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 342 | | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | 176 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 7.42 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | 339 | | 7.5 | mg/L | | 14-MAR-22 | R5743339 |
| Total Dissolved Solids | 270 | | 20 | mg/L | | 14-MAR-22 | R5743338 |
| Turbidity | 145 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 3.8 | | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO3) | 159 | | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.096 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Chloride (Cl) | 15.4 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | 0.051 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | 0.134 | <T | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | 1.92 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | 0.0066 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-4 SW06_SW_20220308 Sampled By: Client on 08-MAR-22 @ 12:00 Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Sulfate (SO4) | 8.60 | | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0002 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | 0.0002 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 29.3 | DLM | 2.5 | mg/L | 15-MAR-22 | 21-MAR-22 | R5748883 |
| Total Organic Carbon | 43.9 | DLM | 2.5 | mg/L | | 18-MAR-22 | R5748582 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 3.55 | | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | 0.000135 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | 0.00245 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.0550 | | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | 0.000143 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0140 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | 0.000099 | <T | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 53.7 | | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | 0.000519 | | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00706 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | 0.00325 | <T | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | 0.0108 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | 5.09 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00287 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | 0.0090 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 21.2 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | 0.761 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | 0.000005 | <DL | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | 0.000680 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | 0.00726 | <T | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.230 | | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | 2.97 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | 0.00845 | | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | 0.000295 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 13.8 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | 0.000076 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 5.31 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.106 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | 3.8 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | 0.000050 | <DL | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | 0.00025 | | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-4 SW06_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tin (Sn)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.0898 | | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | 0.00005 | <DL | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | 0.00177 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | 0.00930 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | 0.0590 | | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | 0.00141 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | 0.0188 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | 0.000085 | <DL | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.000908 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | 0.0195 | | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0085 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000100 | <DL | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 43.6 | | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000118 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | 0.00260 | <T | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | 0.276 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | 0.0042 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 16.2 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.00368 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | 0.000558 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00162 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | 2.35 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | 0.00162 | | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000155 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 5.92 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 4.97 | | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.0902 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | 3.0 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|----------|-----------|-----------|----------|
| L2691886-4 SW06_SW_20220308 Sampled By: Client on 08-MAR-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | 0.00170 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.00134 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00064 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | 0.0070 | <T | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | 0.000316 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.0 | | 2.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | 115 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 1.8 | | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| L2691886-5 SW10_SW_20220308 Sampled By: Client on 08-MAR-22 @ 11:45 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.21 | | 0 | mg/L | | 13-MAR-22 | R5741400 |
| pH, Client Supplied | 6.7 | | 0.10 | pH | | 13-MAR-22 | R5741400 |
| Temperature, Client Supplied | .2 | | 0 | Degree C | | 13-MAR-22 | R5741400 |
| Physical Tests | | | | | | | |
| Color, True | 77.8 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 289 | | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | 154 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 7.39 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 14-MAR-22 | R5743339 |
| Total Dissolved Solids | 218 | | 20 | mg/L | | 14-MAR-22 | R5743338 |
| Turbidity | 7.39 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 3.4 | | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO3) | 149 | | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.090 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 21-MAR-22 | |
| Chloride (Cl) | 4.54 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | 0.044 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | 0.092 | <T | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | 1.07 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | 0.0200 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO4) | 6.20 | | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-5 SW10_SW_20220308 Sampled By: Client on 08-MAR-22 @ 11:45 Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 24.0 | DLM | 2.5 | mg/L | 15-MAR-22 | 21-MAR-22 | R5748883 |
| Total Organic Carbon | 25.3 | | 0.50 | mg/L | | 18-MAR-22 | R5748582 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.199 | | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | 0.000115 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | 0.00080 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.0186 | | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | 0.0000201 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0160 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | 0.000007 | <DL | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 38.7 | | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | 0.0000225 | | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00068 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | 0.000350 | <DL | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | 0.00098 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | 0.773 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00042 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | 0.0068 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 16.7 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | 0.0800 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | 0.000290 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | 0.00144 | <DL | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.035 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | 1.89 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | 0.00172 | | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | 0.000120 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 7.04 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 5.24 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.108 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | 2.6 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.00540 | | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2691886-5 SW10_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 11:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Uranium (U)-Total | 0.000770 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | 0.00100 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | 0.0565 | | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | 0.000364 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | 0.0192 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | 0.000045 | <DL | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.000717 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | 0.0164 | | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0140 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000070 | <DL | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 36.3 | | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00014 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000160 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | 0.00066 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | 0.393 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | 0.00007 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | 0.0068 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 15.4 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.0390 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | 0.000268 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00116 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | 1.85 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | 0.00127 | | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000095 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 6.34 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 5.05 | | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.105 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | 2.4 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | 0.00156 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|--------|----------|-----------|-----------|----------|
| L2691886-5 SW10_SW_20220308 Sampled By: Client on 08-MAR-22 @ 11:45 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.000751 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00058 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | 0.0016 | <DL | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | 0.000328 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 3.8 | | 2.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | 70 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 2.2 | | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| L2691886-6 SW15_SW_20220308 Sampled By: Client on 08-MAR-22 @ 13:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 4.9 | | 0 | mg/L | | 13-MAR-22 | R5741400 |
| pH, Client Supplied | 7 | | 0.10 | pH | | 13-MAR-22 | R5741400 |
| Temperature, Client Supplied | .55 | | 0 | Degree C | | 13-MAR-22 | R5741400 |
| Physical Tests | | | | | | | |
| Color, True | 128 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 280 | | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | 148 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 7.30 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | 8.5 | | 3.0 | mg/L | | 14-MAR-22 | R5743339 |
| Total Dissolved Solids | 222 | | 20 | mg/L | | 14-MAR-22 | R5743338 |
| Turbidity | 19.1 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 4.0 | | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO3) | 137 | | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.144 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 21-MAR-22 | |
| Chloride (Cl) | 5.47 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | 0.055 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | 0.232 | <T | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | 1.36 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | 0.0313 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO4) | 8.50 | | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 29.7 | DLM | 2.5 | mg/L | 15-MAR-22 | 21-MAR-22 | R5748883 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-6 SW15_SW_20220308 Sampled By: Client on 08-MAR-22 @ 13:00 Matrix: SW | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Total Organic Carbon | 34.1 | | 0.50 | mg/L | | 18-MAR-22 | R5748582 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.611 | | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | 0.000105 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | 0.00136 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.0201 | | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | 0.0000363 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0135 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | 0.000030 | <T | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 38.3 | | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | 0.0000895 | | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00158 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | 0.000635 | <T | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | 0.00238 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | 1.63 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00052 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | 0.0060 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 16.2 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | 0.162 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | 0.000320 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | 0.00280 | <T | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.080 | | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | 2.08 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | 0.00332 | | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | 0.000180 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 8.21 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | 0.000005 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 6.95 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.0897 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | 3.8 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | 0.00012 | | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.0194 | | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | 0.00003 | <DL | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | 0.000728 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | 0.00220 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | 0.0045 | <T | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-6 SW15_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 13:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Zirconium (Zr)-Total | 0.000884 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | 0.0458 | | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | 0.000095 | <DL | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.00104 | <T | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | 0.0137 | | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0105 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000220 | <T | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 35.7 | | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00029 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000242 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | 0.00182 | <T | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | 0.725 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | 0.00015 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | 0.0056 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 14.2 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.111 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | 0.000300 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00176 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | 0.040 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | 1.93 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | 0.00195 | | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000150 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 6.57 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 6.66 | | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.0846 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | 3.4 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | 0.00008 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | 0.00454 | | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.000663 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00082 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|--------|----------|-----------|-----------|----------|
| L2691886-6 SW15_SW_20220308 Sampled By: Client on 08-MAR-22 @ 13:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Zinc (Zn)-Dissolved | 0.0014 | <DL | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | 0.000556 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 9.8 | | 5.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | 89 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 2.2 | | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| L2691886-7 SW16_SW_20220308 Sampled By: Client on 08-MAR-22 @ 11:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.7 | | 0 | mg/L | | 13-MAR-22 | R5741400 |
| pH, Client Supplied | 7.92 | | 0.10 | pH | | 13-MAR-22 | R5741400 |
| Temperature, Client Supplied | .8 | | 0 | Degree C | | 13-MAR-22 | R5741400 |
| Physical Tests | | | | | | | |
| Color, True | 22.1 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 70.2 | | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | 30.2 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 7.23 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | 4.0 | | 3.0 | mg/L | | 14-MAR-22 | R5743339 |
| Total Dissolved Solids | 58 | | 13 | mg/L | | 14-MAR-22 | R5743338 |
| Turbidity | 2.85 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.6 | <DL | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO3) | 26.6 | | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.020 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 21-MAR-22 | |
| Chloride (Cl) | 2.28 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | 0.034 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | 0.114 | <T | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | 0.456 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO4) | 3.65 | <T | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 9.2 | DLM | 2.5 | mg/L | 15-MAR-22 | 21-MAR-22 | R5748883 |
| Total Organic Carbon | 12.6 | | 0.50 | mg/L | | 18-MAR-22 | R5748582 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.124 | | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-7 SW16_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 11:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Antimony (Sb)-Total | 0.000050 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | 0.00044 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.0105 | | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | 0.0000060 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0050 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | 0.000025 | <T | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 8.46 | | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | 0.0000185 | | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00054 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | 0.000085 | <DL | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | 0.00128 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | 0.186 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00012 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | 0.0010 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 2.75 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | 0.0114 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | 0.000165 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | 0.00092 | <DL | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.015 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | 0.97 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | 0.00205 | | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | 0.000125 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 2.07 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 3.37 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.0248 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | 1.4 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.00330 | | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | 0.0000775 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | 0.00045 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | 0.0040 | <T | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | 0.000144 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-MAR-22 | R5745326 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2691886-7 SW16_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 11:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0138 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | 0.000045 | <DL | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.000390 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | 0.00880 | <DL | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0040 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000130 | <DL | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 8.02 | | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | 0.0000040 | <DL | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00017 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000016 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | 0.00146 | <T | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | 0.0280 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | 0.0012 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 2.47 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.00046 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | 0.000168 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00064 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | 0.94 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | 0.00180 | | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000105 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 1.72 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 3.27 | | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.0250 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | 1.2 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | 0.00001 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | 0.00018 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.0000690 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00024 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | 0.0020 | <DL | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | 0.000080 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|---------|----------|-----------|-----------|----------|
| L2691886-7 SW16_SW_20220308 Sampled By: Client on 08-MAR-22 @ 11:30 Matrix: SW | | | | | | | |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | 34 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 2.2 | | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| L2691886-8 SW17_SW_20220308 Sampled By: Client on 08-MAR-22 @ 12:20 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 12.1 | | 0 | mg/L | | 13-MAR-22 | R5741400 |
| pH, Client Supplied | 7.09 | | 0.10 | pH | | 13-MAR-22 | R5741400 |
| Temperature, Client Supplied | .3 | | 0 | Degree C | | 13-MAR-22 | R5741400 |
| Physical Tests | | | | | | | |
| Color, True | 25.3 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 81.4 | | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | 33.3 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 7.21 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | 2.0 | <DL | 3.0 | mg/L | | 14-MAR-22 | R5743339 |
| Total Dissolved Solids | 64 | | 13 | mg/L | | 14-MAR-22 | R5743338 |
| Turbidity | 2.99 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.6 | <DL | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO3) | 30.8 | | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.016 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 21-MAR-22 | |
| Chloride (Cl) | 2.91 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | 0.036 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | 0.098 | <T | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | 0.434 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | 0.0035 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO4) | 4.45 | <T | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 9.1 | DLM | 2.5 | mg/L | 15-MAR-22 | 21-MAR-22 | R5748883 |
| Total Organic Carbon | 11.3 | | 0.50 | mg/L | | 18-MAR-22 | R5748582 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0864 | | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | 0.00040 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.0109 | | 0.010 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-8 SW17_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 12:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Beryllium (Be)-Total | 0.0000071 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0040 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | 0.000010 | <DL | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 9.43 | | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | 0.0000125 | | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00066 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | 0.000065 | <DL | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | 0.00106 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | 0.155 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00008 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | 0.0010 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 3.11 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | 0.0122 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | 0.000190 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | 0.00078 | <DL | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | 0.95 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | 0.00202 | | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | 0.000110 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 2.19 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | 0.000020 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 4.24 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.0259 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | 1.6 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | 0.00008 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.00234 | | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | 0.0000775 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | 0.00040 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | <0.0005 | <W | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | 0.000138 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | 0.0138 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.000398 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-8 SW17_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 12:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Barium (Ba)-Dissolved | 0.00953 | <DL | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0035 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000070 | <DL | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 8.74 | | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00017 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000014 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | 0.00092 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | 0.0430 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | 0.00001 | <DL | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | 0.0010 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 2.79 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.00180 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | 0.000190 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00054 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | 0.91 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | 0.00176 | | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000075 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 1.96 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | 0.0000060 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 4.22 | | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.0263 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | 1.2 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | 0.00001 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | 0.000035 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | 0.00030 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.0000685 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00024 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | 0.0004 | <DL | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | 0.000086 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 7.7 | | 5.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | 29 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 1.4 | | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2691886-9 SW20_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 12:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 9.45 | | 0 | mg/L | | 13-MAR-22 | R5741400 |
| pH, Client Supplied | 6.53 | | 0.10 | pH | | 13-MAR-22 | R5741400 |
| Temperature, Client Supplied | <0 | | 0 | Degree C | | 13-MAR-22 | R5741400 |
| Physical Tests | | | | | | | |
| Color, True | 70.4 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 238 | | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | 125 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 7.13 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | 11.5 | | 3.0 | mg/L | | 14-MAR-22 | R5743339 |
| Total Dissolved Solids | 178 | | 20 | mg/L | | 14-MAR-22 | R5743338 |
| Turbidity | 8.57 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 4.4 | | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO3) | 120 | | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.130 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 21-MAR-22 | |
| Chloride (Cl) | 3.94 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | 0.037 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | 0.074 | <T | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | 0.004 | <DL | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | 1.05 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | 0.0096 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO4) | 3.75 | <T | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 20.4 | DLM | 2.5 | mg/L | 15-MAR-22 | 21-MAR-22 | R5748883 |
| Total Organic Carbon | 25.4 | | 0.50 | mg/L | | 18-MAR-22 | R5748582 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.259 | | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | 0.00064 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.0197 | | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | 0.0000203 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0115 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | 0.000009 | <DL | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 32.6 | | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | 0.0000320 | | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00076 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-9 SW20_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 12:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Cobalt (Co)-Total | 0.000405 | <DL | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | 0.00090 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | 0.846 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00023 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | 0.0056 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 14.0 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | 0.123 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | 0.000150 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | 0.00124 | <DL | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.045 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | 1.82 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | 0.00204 | | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | 0.000105 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 6.53 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 4.24 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.0768 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | 1.6 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | 0.00017 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.00784 | | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | 0.00008 | <DL | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | 0.000318 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | 0.00100 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | 0.0060 | <T | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | 0.000318 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | 0.0136 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.000567 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | 0.0163 | | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0095 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 29.3 | | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-9 SW20_SW_20220308 Sampled By: Client on 08-MAR-22 @ 12:15 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Chromium (Cr)-Dissolved | 0.00012 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000066 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | 0.00040 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | 0.325 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | 0.0052 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 12.7 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.00122 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | 0.000154 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00084 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | 1.74 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | 0.00159 | | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000080 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 5.76 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 4.09 | | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.0744 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | 1.4 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | 0.000025 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | 0.00084 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.000281 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00044 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | 0.0026 | <DL | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | 0.000212 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.0 | | 2.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | 63 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 1.6 | | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.016 | DLRC | 0.016 | Bq/L | 18-MAR-22 | 31-MAR-22 | R5752738 |
| L2691886-10 SW21A_SW_20220308 Sampled By: Client on 08-MAR-22 @ 11:50 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 0 | | 0 | mg/L | | 13-MAR-22 | R5741400 |
| pH, Client Supplied | 7.8 | | 0.10 | pH | | 13-MAR-22 | R5741400 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2691886-10 SW21A_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 11:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Temperature, Client Supplied | .05 | | 0 | Degree C | | 13-MAR-22 | R5741400 |
| Physical Tests | | | | | | | |
| Color, True | 94.7 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 370 | | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | 193 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 7.07 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | 4.0 | | 3.0 | mg/L | | 14-MAR-22 | R5743339 |
| Total Dissolved Solids | 262 | | 20 | mg/L | | 14-MAR-22 | R5743338 |
| Turbidity | 4.78 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 8.8 | | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO3) | 189 | | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.102 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 21-MAR-22 | |
| Chloride (Cl) | 8.42 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | 0.059 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | 1.15 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | 0.0594 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO4) | 6.45 | | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 26.1 | DLM | 2.5 | mg/L | 15-MAR-22 | 21-MAR-22 | R5748883 |
| Total Organic Carbon | 31.2 | | 0.50 | mg/L | | 18-MAR-22 | R5748582 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.128 | | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | 0.000060 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | 0.00098 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.0262 | | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | 0.0000132 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0130 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | 0.000008 | <DL | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 49.3 | | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | 0.0000135 | | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00066 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | 0.000895 | <T | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | 0.00050 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-10 SW21A_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 11:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Iron (Fe)-Total | 1.33 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00015 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | 0.0070 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 20.8 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | 0.549 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | 0.000170 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | 0.00190 | <DL | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.110 | | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | 1.96 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | 0.00183 | | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | 0.000155 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 8.23 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 6.76 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.119 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | 3.0 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.00401 | | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | 0.000627 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | 0.00080 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | 0.0050 | <T | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | 0.000358 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | 0.0122 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | 0.000050 | <DL | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.000830 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | 0.0196 | | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0105 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000020 | <DL | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 45.8 | | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00017 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000136 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|----------|-----------|-----------|----------|
| L2691886-10 SW21A_SW_20220308 Sampled By: Client on 08-MAR-22 @ 11:50 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Copper (Cu)-Dissolved | 0.00036 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | 0.612 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | 0.0066 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 19.0 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.0130 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | 0.000164 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00148 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | 0.055 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | 1.92 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | 0.00144 | | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000135 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 7.49 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 6.64 | | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.117 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | 2.6 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | 0.00070 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.000558 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00048 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | 0.000330 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | 80 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| L2691886-11 SW22A_SW_20220308 Sampled By: Client on 08-MAR-22 @ 09:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 0 | | 0 | mg/L | | 13-MAR-22 | R5741400 |
| pH, Client Supplied | 7.09 | | 0.10 | pH | | 13-MAR-22 | R5741400 |
| Temperature, Client Supplied | <0 | | 0 | Degree C | | 13-MAR-22 | R5741400 |
| Physical Tests | | | | | | | |
| Color, True | 92.9 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 383 | | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-11 SW22A_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 09:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Hardness (as CaCO3) | 202 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 7.18 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 14-MAR-22 | R5743339 |
| Total Dissolved Solids | 288 | | 20 | mg/L | | 14-MAR-22 | R5743338 |
| Turbidity | 5.12 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 7.4 | | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO3) | 199 | | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.102 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 21-MAR-22 | |
| Chloride (Cl) | 9.25 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | 0.064 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | 0.020 | <T | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | 1.24 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | 0.0586 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO4) | 7.75 | | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | 0.0014 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | 0.0004 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 26.4 | DLM | 2.5 | mg/L | 15-MAR-22 | 21-MAR-22 | R5748883 |
| Total Organic Carbon | 31.0 | | 0.50 | mg/L | | 18-MAR-22 | R5748582 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.159 | | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | 0.000065 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | 0.00101 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.0265 | | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | 0.0000184 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0135 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | 0.000013 | <DL | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 53.7 | | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | 0.0000115 | | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00056 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | 0.000855 | <T | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | 0.00076 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | 1.26 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00018 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | 0.0074 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 22.7 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-11 SW22A_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 09:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Manganese (Mn)-Total | 0.535 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | 0.000225 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | 0.00186 | <DL | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.110 | | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | 2.08 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | 0.00176 | | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | 0.000170 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 8.23 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 7.10 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.127 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | 3.6 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | 0.00001 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.00390 | | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | 0.000885 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | 0.00080 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | 0.0135 | | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | 0.000370 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | 0.0108 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | 0.000055 | <DL | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.000839 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | 0.0194 | | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0120 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000040 | <DL | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 47.5 | | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000130 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | 0.00066 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | 0.539 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | 0.0074 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2691886-11 SW22A_SW_20220308 Sampled By: Client on 08-MAR-22 @ 09:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Magnesium (Mg)-Dissolved | 20.1 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.00200 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | 0.000240 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00150 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | 0.045 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | 2.01 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | 0.00152 | | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000160 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 7.68 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | 0.0000050 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 6.77 | | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.121 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | 3.0 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | 0.00072 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.000817 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00050 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | 0.0010 | <DL | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | 0.000336 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 5.3 | | 2.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | 78 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 2.6 | | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.011 | DLRC | 0.011 | Bq/L | 18-MAR-22 | 31-MAR-22 | R5752738 |
| L2691886-12 SW23_SW_20220308 Sampled By: Client on 08-MAR-22 @ 14:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 13.6 | | 0 | mg/L | | 13-MAR-22 | R5741400 |
| pH, Client Supplied | 6.93 | | 0.10 | pH | | 13-MAR-22 | R5741400 |
| Temperature, Client Supplied | .5 | | 0 | Degree C | | 13-MAR-22 | R5741400 |
| Physical Tests | | | | | | | |
| Color, True | 109 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 380 | | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | 198 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 7.25 | | 0.10 | pH | | 12-MAR-22 | R5741623 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-12 SW23_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 14:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Total Suspended Solids | 8.0 | | 3.0 | mg/L | | 14-MAR-22 | R5743339 |
| Total Dissolved Solids | 294 | | 20 | mg/L | | 14-MAR-22 | R5743338 |
| Turbidity | 12.3 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 7.4 | | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO3) | 197 | | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.146 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 21-MAR-22 | |
| Chloride (Cl) | 6.76 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | 0.060 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | 0.076 | <T | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | 1.43 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | 0.0521 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO4) | 5.75 | | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 30.1 | DLM | 2.5 | mg/L | 15-MAR-22 | 21-MAR-22 | R5748883 |
| Total Organic Carbon | 27.7 | | 0.50 | mg/L | | 21-MAR-22 | R5748886 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.263 | | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | 0.000085 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | 0.00124 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.0191 | | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | 0.0000262 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0110 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | 0.000020 | <T | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 52.6 | | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | 0.0000300 | | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00092 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | 0.000880 | <T | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | 0.00132 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | 1.85 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00041 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | 0.0068 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 22.8 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | 0.456 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-12 SW23_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 14:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Molybdenum (Mo)-Total | 0.000240 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | 0.00244 | <T | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.105 | | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | 2.08 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | 0.00220 | | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | 0.000205 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 9.20 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 5.99 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.119 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | 2.6 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | 0.00009 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.00848 | | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | 0.000899 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | 0.00140 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | 0.0045 | <T | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | 0.000748 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | 0.0200 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | 0.000065 | <DL | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.00102 | <T | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | 0.0124 | | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0095 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000040 | <DL | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 47.1 | | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00023 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000136 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | 0.00098 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | 0.893 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | 0.00012 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | 0.0062 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 19.6 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.00204 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2691886-12 SW23_SW_20220308 Sampled By: Client on 08-MAR-22 @ 14:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | 0.000224 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00190 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | 0.055 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | 1.89 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | 0.00163 | | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000205 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 8.13 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 5.60 | | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.110 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | 2.2 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | 0.00005 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | 0.000240 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | 0.00232 | | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.000839 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00070 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | 0.000500 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.1 | | 2.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | 89 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 1.4 | | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0052 | | 0.0052 | Bq/L | 18-MAR-22 | 31-MAR-22 | R5752738 |
| L2691886-13 SW24_SW_20220308 Sampled By: Client on 08-MAR-22 @ 14:20 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 4.65 | | 0 | mg/L | | 13-MAR-22 | R5741400 |
| pH, Client Supplied | 6.83 | | 0.10 | pH | | 13-MAR-22 | R5741400 |
| Temperature, Client Supplied | .02 | | 0 | Degree C | | 13-MAR-22 | R5741400 |
| Physical Tests | | | | | | | |
| Color, True | 107 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 376 | | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | 201 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 7.36 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | 7.5 | | 3.0 | mg/L | | 14-MAR-22 | R5743339 |
| Total Dissolved Solids | 282 | | 20 | mg/L | | 14-MAR-22 | R5743338 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-13 SW24_SW_20220308 Sampled By: Client on 08-MAR-22 @ 14:20 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Turbidity | 12.3 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO ₃) | 6.2 | | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO ₃) | 196 | | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.138 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 21-MAR-22 | |
| Chloride (Cl) | 6.67 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | 0.060 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | 0.052 | <T | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | 1.47 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | 0.0530 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO ₄) | 5.70 | | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 29.5 | DLM | 2.5 | mg/L | 15-MAR-22 | 21-MAR-22 | R5748883 |
| Total Organic Carbon | 30.9 | | 0.50 | mg/L | | 21-MAR-22 | R5748886 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.270 | | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | 0.000075 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | 0.00123 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.0184 | | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | 0.0000250 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0110 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | 0.000017 | <T | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 50.3 | | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | 0.0000380 | | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00090 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | 0.000855 | <T | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | 0.00132 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | 1.81 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00036 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | 0.0068 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 22.1 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | 0.423 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | 0.000225 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | 0.00250 | <T | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-13 SW24_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 14:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Phosphorus (P)-Total | 0.105 | | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | 1.96 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | 0.00216 | | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | 0.000190 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 8.86 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 5.79 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.114 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | 2.4 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | 0.00008 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.00943 | | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | 0.000854 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | 0.00140 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | 0.0040 | <T | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | 0.000652 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | 0.0210 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | 0.000070 | <DL | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.00105 | <T | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | 0.0121 | | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0095 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000030 | <DL | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 47.7 | | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000146 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | 0.00096 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | 0.926 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | 0.00013 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | 0.0062 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 19.8 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.00506 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | 0.000210 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2691886-13 SW24_SW_20220308 Sampled By: Client on 08-MAR-22 @ 14:20 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Nickel (Ni)-Dissolved | 0.00190 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | 0.065 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | 1.88 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | 0.00161 | | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 8.06 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 5.54 | | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.109 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | 2.2 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | 0.00005 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | 0.00234 | | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.000829 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00070 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | 0.000548 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | 90 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 1.8 | | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0085 | | 0.0085 | Bq/L | 18-MAR-22 | 31-MAR-22 | R5752738 |
| L2691886-14 SW25_SW_20220308 Sampled By: Client on 08-MAR-22 @ 14:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 7.18 | | 0 | mg/L | | 13-MAR-22 | R5741400 |
| pH, Client Supplied | 6.96 | | 0.10 | pH | | 13-MAR-22 | R5741400 |
| Temperature, Client Supplied | .16 | | 0 | Degree C | | 13-MAR-22 | R5741400 |
| Physical Tests | | | | | | | |
| Color, True | 119 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 337 | | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | 173 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 7.54 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | 102 | | 3.0 | mg/L | | 14-MAR-22 | R5743339 |
| Total Dissolved Solids | 258 | | 20 | mg/L | | 14-MAR-22 | R5743338 |
| Turbidity | 50.8 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-14 SW25_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 14:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.8 | | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO3) | 154 | | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.104 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5747747 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 21-MAR-22 | |
| Chloride (Cl) | 15.3 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | 0.052 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | 0.146 | <T | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | 2.75 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |
| Orthophosphate-Dissolved (as P) | 0.0066 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO4) | 8.40 | | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 30.0 | DLM | 2.5 | mg/L | 21-MAR-22 | 21-MAR-22 | R5748824 |
| Total Organic Carbon | 31.5 | DLM | 2.5 | mg/L | | 21-MAR-22 | R5748886 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 2.63 | | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | 0.000140 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | 0.00207 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | 0.0460 | | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | 0.000107 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | 0.00005 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | 0.0120 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | 0.000099 | <T | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | 51.4 | | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | 0.000398 | | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00542 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | 0.00242 | <T | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | 0.00860 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | 3.88 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | 0.00215 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | 0.0078 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 20.2 | | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | 0.586 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | 0.000005 | <DL | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | 0.000655 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | 0.00576 | <T | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.170 | | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | 2.82 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-14 SW25_SW_20220308 | | | | | | | |
| Sampled By: Client on 08-MAR-22 @ 14:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Rubidium (Rb)-Total | 0.00686 | | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | 0.000295 | <T | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 11.9 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | 0.000054 | <DL | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | 5.26 | | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | 0.105 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | 3.6 | | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | 0.000035 | <DL | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |
| Thorium (Th)-Total | 0.00021 | | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.0691 | | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | 0.00005 | <DL | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | 0.00164 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | 0.00690 | <T | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | 0.0520 | | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | 0.00116 | | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | 0.0196 | <T | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | 0.000085 | <DL | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.000928 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | 0.0203 | | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | 0.0085 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000110 | <DL | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 43.4 | | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000116 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | 0.00268 | <T | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | 0.248 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | 0.0044 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 15.7 | | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | 0.00466 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | 0.000584 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00160 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 18-MAR-22 | R5748480 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2691886-14 SW25_SW_20220308 Sampled By: Client on 08-MAR-22 @ 14:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Potassium (K)-Dissolved | 2.34 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | 0.00164 | | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | 6.06 | | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | 0.0000040 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | 4.74 | | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | 0.0924 | | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | 3.2 | | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | 0.00180 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.00131 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00070 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | 0.0066 | <T | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | 0.000348 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.4 | | 2.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | 145 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 1.4 | | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| L2691886-15 TB_SW_20220308 Sampled By: Client on 10-MAR-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 12-MAR-22 | R5741280 |
| Conductivity (EC) | 0.4 | <DL | 1.0 | uS/cm | | 12-MAR-22 | R5741623 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 22-MAR-22 | |
| pH | 5.21 | | 0.10 | pH | | 12-MAR-22 | R5741623 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 15-MAR-22 | R5744483 |
| Total Dissolved Solids | 4 | <DL | 10 | mg/L | | 15-MAR-22 | R5744500 |
| Turbidity | <0.10 | | 0.10 | NTU | | 12-MAR-22 | R5741294 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-MAR-22 | R5744682 |
| Alkalinity, Total (as CaCO3) | 0.2 | <DL | 2.0 | mg/L | | 12-MAR-22 | R5741623 |
| Ammonia, Total (as N) | 0.010 | <T | 0.0050 | mg/L | | 25-MAR-22 | R5750358 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 12-MAR-22 | 15-MAR-22 | R5744503 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 15-MAR-22 | R5744503 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-MAR-22 | R5744503 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 14-MAR-22 | 17-MAR-22 | R5747456 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2691886-15 TB_SW_20220308 Sampled By: Client on 10-MAR-22 @ 12:00 Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 12-MAR-22 | 15-MAR-22 | R5743956 |
| Sulfate (SO4) | 0.10 | <DL | 0.30 | mg/L | | 15-MAR-22 | R5744503 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Total | 0.0002 | <DL | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 15-MAR-22 | R5744479 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 10-MAR-22 | 16-MAR-22 | R5746285 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 21-MAR-22 | R5748886 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0014 | <DL | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Antimony (Sb)-Total | 0.000010 | <DL | 0.00060 | mg/L | | 21-MAR-22 | R5748948 |
| Arsenic (As)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Barium (Ba)-Total | <0.00001 | <W | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 21-MAR-22 | R5748948 |
| Calcium (Ca)-Total | <0.002 | <W | 0.20 | mg/L | | 21-MAR-22 | R5748948 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 21-MAR-22 | R5748948 |
| Chromium (Cr)-Total | 0.00012 | <DL | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 21-MAR-22 | R5748948 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Iron (Fe)-Total | 0.0030 | <DL | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Lead (Pb)-Total | <0.00001 | <W | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Magnesium (Mg)-Total | 0.0012 | <DL | 0.020 | mg/L | | 21-MAR-22 | R5748948 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744159 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Nickel (Ni)-Total | <0.00002 | <W | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Phosphorus (P)-Total | 0.005 | <DL | 0.050 | mg/L | | 21-MAR-22 | R5748948 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Rubidium (Rb)-Total | 0.000006 | <DL | 0.00020 | mg/L | | 21-MAR-22 | R5748948 |
| Selenium (Se)-Total | <0.000005 | <W | 0.000050 | mg/L | | 21-MAR-22 | R5748948 |
| Silicon (Si)-Total | 0.004 | <DL | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Sodium (Na)-Total | <0.005 | <W | 0.10 | mg/L | | 21-MAR-22 | R5748948 |
| Strontium (Sr)-Total | <0.000005 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 21-MAR-22 | R5748948 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 21-MAR-22 | R5748948 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2691886-15 TB_SW_20220308 | | | | | | | |
| Sampled By: Client on 10-MAR-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 21-MAR-22 | R5748948 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Titanium (Ti)-Total | 0.00011 | <DL | 0.0020 | mg/L | | 21-MAR-22 | R5748948 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 21-MAR-22 | R5748948 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 21-MAR-22 | R5748948 |
| Vanadium (V)-Total | <0.00005 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Zinc (Zn)-Total | 0.0020 | <DL | 0.0030 | mg/L | | 21-MAR-22 | R5748948 |
| Zirconium (Zr)-Total | <0.000002 | <W | 0.0010 | mg/L | | 21-MAR-22 | R5748948 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 16-MAR-22 | R5745326 |
| Aluminum (Al)-Dissolved | <0.0002 | <W | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 18-MAR-22 | R5748480 |
| Arsenic (As)-Dissolved | 0.0000070 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Barium (Ba)-Dissolved | <0.000005 | <W | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Boron (B)-Dissolved | <0.0005 | <W | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Cadmium (Cd)-Dissolved | 0.0000010 | <DL | 0.000017 | mg/L | | 18-MAR-22 | R5748480 |
| Calcium (Ca)-Dissolved | 0.006 | <DL | 0.20 | mg/L | | 18-MAR-22 | R5748480 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 18-MAR-22 | R5748480 |
| Chromium (Cr)-Dissolved | 0.00008 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Cobalt (Co)-Dissolved | 0.000004 | <DL | 0.00050 | mg/L | | 18-MAR-22 | R5748480 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Iron (Fe)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Magnesium (Mg)-Dissolved | 0.0025 | <DL | 0.020 | mg/L | | 18-MAR-22 | R5748480 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 15-MAR-22 | R5744160 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Nickel (Ni)-Dissolved | 0.00002 | <DL | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 18-MAR-22 | R5748480 |
| Selenium (Se)-Dissolved | 0.000005 | <DL | 0.000050 | mg/L | | 18-MAR-22 | R5748480 |
| Silicon (Si)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 18-MAR-22 | R5748480 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Sodium (Na)-Dissolved | <0.005 | <W | 0.10 | mg/L | | 18-MAR-22 | R5748480 |
| Strontium (Sr)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 18-MAR-22 | R5748480 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|---------|-------|-----------|-----------|----------|
| L2691886-15 TB_SW_20220308 Sampled By: Client on 10-MAR-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-MAR-22 | R5748480 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 18-MAR-22 | R5748480 |
| Tin (Sn)-Dissolved | 0.000005 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 18-MAR-22 | R5748480 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 18-MAR-22 | R5748480 |
| Uranium (U)-Dissolved | 0.0000010 | <DL | 0.0050 | mg/L | | 18-MAR-22 | R5748480 |
| Vanadium (V)-Dissolved | 0.00006 | <DL | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 18-MAR-22 | R5748480 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 18-MAR-22 | R5748480 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 13-MAR-22 | R5748531 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 14-MAR-22 | 17-MAR-22 | R5746661 |
| Oil and Grease, Total | 2.6 | | 1.0 | mg/L | 15-MAR-22 | 15-MAR-22 | R5744717 |
| | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------|--------------------------|-----------|--|
| Method Blank | Zinc (Zn)-Total | MB-LOR | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Chemical Oxygen Demand | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Barium (Ba)-Dissolved | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Dissolved | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Dissolved | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Dissolved | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Dissolved | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Aluminum (Al)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Barium (Ba)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Barium (Ba)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Iron (Fe)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Manganese (Mn)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Manganese (Mn)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Silicon (Si)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Titanium (Ti)-Total | MS-B | L2691886-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Ammonia, Total (as N) | MS-B | L2691886-15 |
| Matrix Spike | Total Organic Carbon | MS-B | L2691886-12, -13, -14, -15 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| DLM | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |
| DLRC | Detection Limit Raised for RadioChemistry test due to sample matrix (e.g. high TDS) or instrument detector conditions. |
| MB-LOR | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| PEHR | Parameter Exceeded Recommended Holding Time On Receipt: Proceed With Analysis As Requested. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|----------|--------------------|--------------------------------------|
| ACY-MISA-TB | Effluent | Acidity (as CaCO3) | APHA 2310 B-POTENTIOMETRIC TITRATION |

Reference Information

Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample.

| | | | |
|-------------|----------|---|---------------------------------|
| ALK-MISA-TB | Effluent | Alkalinity, Total (as CaCO ₃) | APHA 2320 B-Auto-Pot. Titration |
|-------------|----------|---|---------------------------------|

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.

| | | | |
|--------|-------|---------------------------------|--|
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
|--------|-------|---------------------------------|--|

All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.

| | | | |
|--------------|-------|-------------------------------------|-----------------|
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
|--------------|-------|-------------------------------------|-----------------|

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

| | | | |
|---------------------|----------|--|--------------------------|
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
|---------------------|----------|--|--------------------------|

This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.

| | | | |
|------------------|----------|----------------------|-----------------------------|
| CN-T-MISA-CFA-WT | Effluent | Total Cyanide by CFA | ISO 14403-2:2012 (modified) |
|------------------|----------|----------------------|-----------------------------|

This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.

Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

| | | | |
|--------------------|----------|--------------------------------------|---------------------------------|
| CN-WAD-MISA-CFA-WT | Effluent | Weak Acid Dissociable Cyanide by CFA | APHA 4500-CN CYANIDE (modified) |
|--------------------|----------|--------------------------------------|---------------------------------|

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

| | | | |
|--------|-------|------------------------|------------|
| COD-TB | Water | Chemical Oxygen Demand | APHA 5220D |
|--------|-------|------------------------|------------|

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

| | | | |
|-----------|-------|--------------|-------------|
| COLOUR-TB | Water | Colour, True | APHA 2120 C |
|-----------|-------|--------------|-------------|

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

| | | | |
|--------------|-------|-----------------------------------|---------------------------|
| DO-CLIENT-TB | Water | Dissolved Oxygen, Client Supplied | Result supplied by Client |
|--------------|-------|-----------------------------------|---------------------------|

| | | | |
|--------|----------|-----------------------------------|--------------------------|
| DOC-WT | Effluent | Dissolved Organic Carbon for MISA | APHA 5310 B-Instrumental |
|--------|----------|-----------------------------------|--------------------------|

| | | | |
|------------|----------|-------------------|-----------------------|
| EC-MISA-TB | Effluent | Conductivity (EC) | APHA 2510 B-ELECTRODE |
|------------|----------|-------------------|-----------------------|

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

| | | | |
|-----------|-------|-------------------------|-----------------|
| F-IC-N-TB | Water | Fluoride in Water by IC | EPA 300.1 (mod) |
|-----------|-------|-------------------------|-----------------|

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

| | | | |
|------------------|----------|----------------------------------|-------------|
| HARDNESS-CALC-TB | Effluent | Hardness (as CaCO ₃) | CALCULATION |
|------------------|----------|----------------------------------|-------------|

| | | | |
|-----------|----------|---------------------------------|-------------|
| HG-DIS-WT | Effluent | Mercury (Hg)-Dissolved for MISA | SW846 7470A |
|-----------|----------|---------------------------------|-------------|

| | | | |
|-----------|----------|-----------------------------|-------------|
| HG-TOT-WT | Effluent | Mercury (Hg)-Total for MISA | SW846 7470A |
|-----------|----------|-----------------------------|-------------|

| | | | |
|---------------|----------|----------------------------------|------------------------|
| MET-D-MISA-TB | Effluent | Dissolved Metals in Water (MISA) | APHA 3030B/6020B (mod) |
|---------------|----------|----------------------------------|------------------------|

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

| | | | |
|---------------|----------|------------------------------|-----------------------|
| MET-T-MISA-TB | Effluent | Total Metals in Water (MISA) | EPA 200.2/6020B (mod) |
|---------------|----------|------------------------------|-----------------------|

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

Reference Information

NH3-MISA-F-TB Effluent Ammonia by Discrete Analyzer catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NH3-UNION-CALC-TB Effluent Un-ionized ammonia Calculation

NO2-MISA-IC-TB Effluent Nitrite in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-TB Effluent Nitrate in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

OGG-TOT-WT Effluent Oil and Grease, Total for MISA APHA 5520 B-Hexane Gravimetric

PH-CLIENT-TB Water pH Result supplied by Client

PH-MISA-TB Effluent pH APHA 4500-H-ELECTRODE

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

PO4-DO-COL-TB Water Dissolved Orthophosphate APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

RA226-MMER-FC Water Ra226 by Alpha Scint, MDC=0.01 Bq/L EPA 903.1

SO4-MISA-IC-TB Effluent Sulfate in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

TDS-MISA-TB Effluent Total Dissolved Solids APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TEMP-CLIENT-TB Water Temperature Result supplied by Client

TKN-F-TB Water TKN in Water by Fluorescence catnr 157/158, 062818/99334821

Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection

TOC-WT Water Total Organic Carbon APHA 5310B

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

TSS-MISA-TB Effluent Total Suspended Solids APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB Water Turbidity APHA 2130 B-Nephelometer

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |
| FC | ALS ENVIRONMENTAL - FORT COLLINS, COLORADO, USA |

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| BOD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5748531 | | | | | | | |
| WG3705428-3 | DUP | L2691886-2 | | | | | | |
| Biochemical Oxygen Demand | | 4.7 | 7.3 | RPD-NA | mg/L | N/A | 30 | 13-MAR-22 |
| WG3705428-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 104.2 | | % | | 85-115 | 13-MAR-22 |
| WG3705428-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 13-MAR-22 |
| CL-L-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5744503 | | | | | | | |
| WG3705376-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 100.2 | | % | | 90-110 | 15-MAR-22 |
| WG3705376-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 15-MAR-22 |
| COD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5746661 | | | | | | | |
| WG3705708-3 | DUP | L2691886-1 | | | | | | |
| Chemical Oxygen Demand | | <10 | <10 | RPD-NA | mg/L | N/A | 20 | 17-MAR-22 |
| WG3705708-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 108.3 | | % | | 85-115 | 17-MAR-22 |
| WG3705708-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 17-MAR-22 |
| WG3705708-4 | MS | L2691886-2 | | | | | | |
| Chemical Oxygen Demand | | | N/A | MS-B | % | | - | 17-MAR-22 |
| COLOUR-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5741280 | | | | | | | |
| WG3705374-3 | DUP | L2691886-3 | | | | | | |
| Color, True | | 97.7 | 98.7 | | CU | 1.0 | 20 | 12-MAR-22 |
| WG3705374-2 | LCS | | | | | | | |
| Color, True | | | 101.1 | | % | | 85-115 | 12-MAR-22 |
| WG3705374-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 12-MAR-22 |
| F-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5744503 | | | | | | | |
| WG3705376-2 | LCS | | | | | | | |
| Fluoride (F) | | | 106.9 | | % | | 90-110 | 15-MAR-22 |
| WG3705376-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 15-MAR-22 |
| TKN-F-TB | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| TKN-F-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5747456 | | | | | | | |
| WG3705704-3 | DUP | L2691612-2 | | | | | | |
| Total Kjeldahl Nitrogen | | 58.7 | 63.4 | | mg/L | 7.7 | 20 | 17-MAR-22 |
| WG3705704-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 111.4 | | % | | 75-125 | 17-MAR-22 |
| WG3705704-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 17-MAR-22 |
| TOC-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5748582 | | | | | | | |
| WG3706837-3 | DUP | L2691886-1 | | | | | | |
| Total Organic Carbon | | 0.62 | 0.58 | | mg/L | 6.3 | 20 | 18-MAR-22 |
| WG3706837-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 105.3 | | % | | 80-120 | 18-MAR-22 |
| WG3706837-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 18-MAR-22 |
| WG3706837-4 | MS | L2691886-1 | | | | | | |
| Total Organic Carbon | | | 109.5 | | % | | 70-130 | 18-MAR-22 |
| Batch | R5748886 | | | | | | | |
| WG3707313-3 | DUP | L2692215-5 | | | | | | |
| Total Organic Carbon | | 14.4 | 15.1 | | mg/L | 4.5 | 20 | 21-MAR-22 |
| WG3707313-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 97.6 | | % | | 80-120 | 21-MAR-22 |
| WG3707313-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 21-MAR-22 |
| WG3707313-4 | MS | L2692215-5 | | | | | | |
| Total Organic Carbon | | | N/A | MS-B | % | | - | 21-MAR-22 |
| TURBIDITY-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5741294 | | | | | | | |
| WG3705406-3 | DUP | L2691886-8 | | | | | | |
| Turbidity | | 2.99 | 2.91 | | NTU | 2.7 | 15 | 12-MAR-22 |
| WG3705406-2 | LCS | | | | | | | |
| Turbidity | | | 102.0 | | % | | 85-115 | 12-MAR-22 |
| WG3705406-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 12-MAR-22 |
| ACY-MISA-TB | Effluent | | | | | | | |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| ACY-MISA-TB | | Effluent | | | | | | |
| Batch R5744682 | | | | | | | | |
| WG3705372-3 | DUP | L2691886-2 | | | | | | |
| Acidity (as CaCO3) | | 12.4 | 12.8 | | mg/L | 2.8 | 20 | 15-MAR-22 |
| WG3705372-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 94.2 | | % | | 85-115 | 15-MAR-22 |
| WG3705372-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | 2.2 | | mg/L | | 3 | 15-MAR-22 |
| ALK-MISA-TB | | Effluent | | | | | | |
| Batch R5741623 | | | | | | | | |
| WG3705371-3 | DUP | L2691886-14 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 154 | 154 | | mg/L | 0.2 | 20 | 12-MAR-22 |
| Alkalinity, Phenolphthalein | | <0.2 | <0.2 | RPD-NA | mg/L | N/A | 25 | 12-MAR-22 |
| WG3705371-2 | LCS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 100.0 | | % | | 85-115 | 12-MAR-22 |
| WG3705371-1 | MB | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | <0.2 | | mg/L | | 2 | 12-MAR-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 12-MAR-22 |
| CN-FREE-MISA-CFA-WT | | Effluent | | | | | | |
| Batch R5744479 | | | | | | | | |
| WG3706200-3 | DUP | L2691886-11 | | | | | | |
| Cyanide, Free | | 0.0004 | 0.0006 | RPD-NA | mg/L | N/A | 20 | 15-MAR-22 |
| WG3706200-2 | LCS | | | | | | | |
| Cyanide, Free | | | 98.6 | | % | | 80-120 | 15-MAR-22 |
| WG3706200-1 | MB | | | | | | | |
| Cyanide, Free | | | <0.0001 | | mg/L | | 0.002 | 15-MAR-22 |
| WG3706200-4 | MS | L2691886-11 | | | | | | |
| Cyanide, Free | | | 104.9 | | % | | 75-125 | 15-MAR-22 |
| CN-T-MISA-CFA-WT | | Effluent | | | | | | |
| Batch R5744479 | | | | | | | | |
| WG3706200-3 | DUP | L2691886-11 | | | | | | |
| Cyanide, Total | | 0.0014 | 0.0006 | RPD-NA | mg/L | N/A | 20 | 15-MAR-22 |
| WG3706200-2 | LCS | | | | | | | |
| Cyanide, Total | | | 97.9 | | % | | 80-120 | 15-MAR-22 |
| WG3706200-1 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 15-MAR-22 |
| WG3706200-4 | MS | L2691886-11 | | | | | | |
| Cyanide, Total | | | 95.9 | | % | | 75-125 | 15-MAR-22 |
| CN-WAD-MISA-CFA-WT | | Effluent | | | | | | |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------------|--------|-------------------------|-----------|-----------|-------|-----|---------|-----------|
| EC-MISA-TB Effluent | | | | | | | | |
| Batch R5741623 | | | | | | | | |
| WG3705371-1 MB | | | | | | | | |
| Conductivity (EC) | | | <0.2 | | uS/cm | | 2 | 12-MAR-22 |
| HG-DIS-WT Effluent | | | | | | | | |
| Batch R5744160 | | | | | | | | |
| WG3706218-3 DUP | | | | | | | | |
| Mercury (Hg)-Dissolved | | L2691886-2 <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 15-MAR-22 |
| WG3706218-2 LCS | | | | | | | | |
| Mercury (Hg)-Dissolved | | | 91.3 | | % | | 80-120 | 15-MAR-22 |
| WG3706218-1 MB | | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.00003 | 15-MAR-22 |
| WG3706218-4 MS | | | | | | | | |
| Mercury (Hg)-Dissolved | | L2691886-3 | 88.4 | | % | | 70-130 | 15-MAR-22 |
| HG-TOT-WT Effluent | | | | | | | | |
| Batch R5744159 | | | | | | | | |
| WG3706214-3 DUP | | | | | | | | |
| Mercury (Hg)-Total | | L2691886-2 <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 15-MAR-22 |
| WG3706214-2 LCS | | | | | | | | |
| Mercury (Hg)-Total | | | 97.1 | | % | | 80-120 | 15-MAR-22 |
| WG3706214-1 MB | | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.00003 | 15-MAR-22 |
| WG3706214-4 MS | | | | | | | | |
| Mercury (Hg)-Total | | L2691886-3 | 86.9 | | % | | 70-130 | 15-MAR-22 |
| MET-D-MISA-TB Effluent | | | | | | | | |
| Batch R5748480 | | | | | | | | |
| WG3706646-3 DUP | | | | | | | | |
| Aluminum (Al)-Dissolved | | L2691886-13 0.0210 | 0.0212 | | mg/L | 0.5 | 20 | 18-MAR-22 |
| Antimony (Sb)-Dissolved | | 0.000070 | 0.000065 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Arsenic (As)-Dissolved | | 0.00105 | 0.00100 | | mg/L | 4.5 | 20 | 18-MAR-22 |
| Barium (Ba)-Dissolved | | 0.0121 | 0.0118 | | mg/L | 2.4 | 20 | 18-MAR-22 |
| Beryllium (Be)-Dissolved | | 0.000004 | 0.000006 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Bismuth (Bi)-Dissolved | | <0.000002 | 0.000002 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Boron (B)-Dissolved | | 0.0095 | 0.0095 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Cadmium (Cd)-Dissolved | | 0.0000030 | 0.0000060 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Calcium (Ca)-Dissolved | | 47.7 | 47.6 | | mg/L | 0.4 | 20 | 18-MAR-22 |
| Cesium (Cs)-Dissolved | | 0.0000020 | 0.0000020 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5748480 | | | | | | | |
| WG3706646-3 | DUP | L2691886-13 | | | | | | |
| Chromium (Cr)-Dissolved | | 0.00020 | 0.00021 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Cobalt (Co)-Dissolved | | 0.000146 | 0.000140 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Copper (Cu)-Dissolved | | 0.00096 | 0.00092 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Iron (Fe)-Dissolved | | 0.926 | 0.925 | | mg/L | 0.1 | 20 | 18-MAR-22 |
| Lead (Pb)-Dissolved | | 0.00013 | 0.00013 | | mg/L | 2.3 | 20 | 18-MAR-22 |
| Lithium (Li)-Dissolved | | 0.0062 | 0.0062 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Magnesium (Mg)-Dissolved | | 19.8 | 19.7 | | mg/L | 0.5 | 20 | 18-MAR-22 |
| Manganese (Mn)-Dissolved | | 0.00506 | 0.00500 | | mg/L | 1.4 | 20 | 18-MAR-22 |
| Molybdenum (Mo)-Dissolved | | 0.000210 | 0.000234 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Nickel (Ni)-Dissolved | | 0.00190 | 0.00188 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Phosphorus (P)-Dissolved | | 0.065 | 0.060 | | mg/L | 4.3 | 20 | 18-MAR-22 |
| Potassium (K)-Dissolved | | 1.88 | 1.88 | | mg/L | 0.1 | 20 | 18-MAR-22 |
| Rubidium (Rb)-Dissolved | | 0.00161 | 0.00168 | | mg/L | 3.8 | 20 | 18-MAR-22 |
| Selenium (Se)-Dissolved | | 0.000180 | 0.000165 | | mg/L | 8.0 | 20 | 18-MAR-22 |
| Silicon (Si)-Dissolved | | 8.06 | 8.06 | | mg/L | 0.1 | 20 | 18-MAR-22 |
| Silver (Ag)-Dissolved | | 0.0000010 | 0.0000010 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Sodium (Na)-Dissolved | | 5.54 | 5.46 | | mg/L | 1.4 | 20 | 18-MAR-22 |
| Strontium (Sr)-Dissolved | | 0.109 | 0.107 | | mg/L | 1.3 | 20 | 18-MAR-22 |
| Sulfur (S)-Dissolved | | 2.2 | 2.2 | | mg/L | 1.2 | 20 | 18-MAR-22 |
| Tellurium (Te)-Dissolved | | 0.00002 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Thallium (Tl)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Thorium (Th)-Dissolved | | 0.00005 | 0.00005 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Tin (Sn)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Titanium (Ti)-Dissolved | | 0.00234 | 0.00236 | | mg/L | 1.2 | 20 | 18-MAR-22 |
| Tungsten (W)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Uranium (U)-Dissolved | | 0.000829 | 0.000823 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Vanadium (V)-Dissolved | | 0.00070 | 0.00074 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Zinc (Zn)-Dissolved | | <0.0002 | <0.0002 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| Zirconium (Zr)-Dissolved | | 0.000548 | 0.000502 | RPD-NA | mg/L | N/A | 20 | 18-MAR-22 |
| WG3706646-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 103.8 | | % | | 80-120 | 18-MAR-22 |
| Antimony (Sb)-Dissolved | | | 101.5 | | % | | 80-120 | 18-MAR-22 |
| Arsenic (As)-Dissolved | | | 101.7 | | % | | 80-120 | 18-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------|--------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | Effluent | | | | | | | |
| Batch | R5748480 | | | | | | | |
| WG3706646-2 | LCS | | | | | | | |
| Barium (Ba)-Dissolved | | | 99.0 | | % | | 80-120 | 18-MAR-22 |
| Beryllium (Be)-Dissolved | | | 93.8 | | % | | 80-120 | 18-MAR-22 |
| Bismuth (Bi)-Dissolved | | | 102.3 | | % | | 80-120 | 18-MAR-22 |
| Boron (B)-Dissolved | | | 89.5 | | % | | 80-120 | 18-MAR-22 |
| Cadmium (Cd)-Dissolved | | | 99.4 | | % | | 80-120 | 18-MAR-22 |
| Calcium (Ca)-Dissolved | | | 99.99 | | % | | 80-120 | 18-MAR-22 |
| Cesium (Cs)-Dissolved | | | 99.9 | | % | | 80-120 | 18-MAR-22 |
| Chromium (Cr)-Dissolved | | | 99.9 | | % | | 80-120 | 18-MAR-22 |
| Cobalt (Co)-Dissolved | | | 99.2 | | % | | 80-120 | 18-MAR-22 |
| Copper (Cu)-Dissolved | | | 97.8 | | % | | 80-120 | 18-MAR-22 |
| Iron (Fe)-Dissolved | | | 107.9 | | % | | 80-120 | 18-MAR-22 |
| Lead (Pb)-Dissolved | | | 101.2 | | % | | 80-120 | 18-MAR-22 |
| Lithium (Li)-Dissolved | | | 101.1 | | % | | 80-120 | 18-MAR-22 |
| Magnesium (Mg)-Dissolved | | | 101.3 | | % | | 80-120 | 18-MAR-22 |
| Manganese (Mn)-Dissolved | | | 102.4 | | % | | 80-120 | 18-MAR-22 |
| Molybdenum (Mo)-Dissolved | | | 98.7 | | % | | 80-120 | 18-MAR-22 |
| Nickel (Ni)-Dissolved | | | 99.3 | | % | | 80-120 | 18-MAR-22 |
| Phosphorus (P)-Dissolved | | | 104.7 | | % | | 70-130 | 18-MAR-22 |
| Potassium (K)-Dissolved | | | 100.8 | | % | | 80-120 | 18-MAR-22 |
| Rubidium (Rb)-Dissolved | | | 105.9 | | % | | 80-120 | 18-MAR-22 |
| Selenium (Se)-Dissolved | | | 97.7 | | % | | 80-120 | 18-MAR-22 |
| Silicon (Si)-Dissolved | | | 98.9 | | % | | 60-140 | 18-MAR-22 |
| Silver (Ag)-Dissolved | | | 93.0 | | % | | 80-120 | 18-MAR-22 |
| Sodium (Na)-Dissolved | | | 101.4 | | % | | 80-120 | 18-MAR-22 |
| Strontium (Sr)-Dissolved | | | 99.9 | | % | | 80-120 | 18-MAR-22 |
| Sulfur (S)-Dissolved | | | 94.0 | | % | | 80-120 | 18-MAR-22 |
| Tellurium (Te)-Dissolved | | | 103.2 | | % | | 80-120 | 18-MAR-22 |
| Thallium (Tl)-Dissolved | | | 98.5 | | % | | 80-120 | 18-MAR-22 |
| Thorium (Th)-Dissolved | | | 99.4 | | % | | 80-120 | 18-MAR-22 |
| Tin (Sn)-Dissolved | | | 98.5 | | % | | 80-120 | 18-MAR-22 |
| Titanium (Ti)-Dissolved | | | 100.2 | | % | | 80-120 | 18-MAR-22 |
| Tungsten (W)-Dissolved | | | 103.2 | | % | | 80-120 | 18-MAR-22 |
| Uranium (U)-Dissolved | | | 99.7 | | % | | 80-120 | 18-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5748480 | | | | | | | |
| WG3706646-2 | LCS | | | | | | | |
| Vanadium (V)-Dissolved | | | 101.6 | | % | | 80-120 | 18-MAR-22 |
| Zinc (Zn)-Dissolved | | | 96.2 | | % | | 80-120 | 18-MAR-22 |
| Zirconium (Zr)-Dissolved | | | 98.9 | | % | | 80-120 | 18-MAR-22 |
| WG3706646-1 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | 0.0004 | | mg/L | | 0.005 | 18-MAR-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 18-MAR-22 |
| Arsenic (As)-Dissolved | | | 0.0000040 | | mg/L | | 0.001 | 18-MAR-22 |
| Barium (Ba)-Dissolved | | | <0.000005 | | mg/L | | 0.01 | 18-MAR-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 18-MAR-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 18-MAR-22 |
| Boron (B)-Dissolved | | | <0.0005 | | mg/L | | 0.05 | 18-MAR-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000005 | | mg/L | | 0.000017 | 18-MAR-22 |
| Calcium (Ca)-Dissolved | | | <0.002 | | mg/L | | 0.2 | 18-MAR-22 |
| Cesium (Cs)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 18-MAR-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 18-MAR-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 18-MAR-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 18-MAR-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 18-MAR-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 18-MAR-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 18-MAR-22 |
| Magnesium (Mg)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 18-MAR-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 18-MAR-22 |
| Molybdenum (Mo)-Dissolved | | | 0.000004 | | mg/L | | 0.001 | 18-MAR-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 18-MAR-22 |
| Phosphorus (P)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 18-MAR-22 |
| Potassium (K)-Dissolved | | | <0.01 | | mg/L | | 0.5 | 18-MAR-22 |
| Rubidium (Rb)-Dissolved | | | <0.000002 | | mg/L | | 0.0002 | 18-MAR-22 |
| Selenium (Se)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 18-MAR-22 |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 18-MAR-22 |
| Silver (Ag)-Dissolved | | | 0.0000010 | | mg/L | | 0.0001 | 18-MAR-22 |
| Sodium (Na)-Dissolved | | | <0.005 | | mg/L | | 0.1 | 18-MAR-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 18-MAR-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 18-MAR-22 |
| Tellurium (Te)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 18-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|------------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5748480 | | | | | | | |
| WG3706646-1 | MB | | | | | | | |
| Thallium (Tl)-Dissolved | | | <0.000002 | | mg/L | | 0.0003 | 18-MAR-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 18-MAR-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 18-MAR-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 18-MAR-22 |
| Tungsten (W)-Dissolved | | | 0.000002 | | mg/L | | 0.01 | 18-MAR-22 |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.005 | 18-MAR-22 |
| Vanadium (V)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 18-MAR-22 |
| Zinc (Zn)-Dissolved | | | 0.0006 | | mg/L | | 0.003 | 18-MAR-22 |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 18-MAR-22 |
| WG3706646-4 | MS | L2691886-14 | | | | | | |
| Aluminum (Al)-Dissolved | | | 100.8 | | % | | 70-130 | 18-MAR-22 |
| Antimony (Sb)-Dissolved | | | 100.6 | | % | | 70-130 | 18-MAR-22 |
| Arsenic (As)-Dissolved | | | 100.4 | | % | | 70-130 | 18-MAR-22 |
| Barium (Ba)-Dissolved | | | N/A | MS-B | % | | - | 18-MAR-22 |
| Beryllium (Be)-Dissolved | | | 93.1 | | % | | 70-130 | 18-MAR-22 |
| Bismuth (Bi)-Dissolved | | | 95.8 | | % | | 70-130 | 18-MAR-22 |
| Boron (B)-Dissolved | | | 91.0 | | % | | 70-130 | 18-MAR-22 |
| Cadmium (Cd)-Dissolved | | | 100.4 | | % | | 70-130 | 18-MAR-22 |
| Calcium (Ca)-Dissolved | | | N/A | MS-B | % | | - | 18-MAR-22 |
| Cesium (Cs)-Dissolved | | | 101.0 | | % | | 70-130 | 18-MAR-22 |
| Chromium (Cr)-Dissolved | | | 100.3 | | % | | 70-130 | 18-MAR-22 |
| Cobalt (Co)-Dissolved | | | 98.1 | | % | | 70-130 | 18-MAR-22 |
| Copper (Cu)-Dissolved | | | 96.4 | | % | | 70-130 | 18-MAR-22 |
| Iron (Fe)-Dissolved | | | 98.3 | | % | | 70-130 | 18-MAR-22 |
| Lead (Pb)-Dissolved | | | 99.5 | | % | | 70-130 | 18-MAR-22 |
| Lithium (Li)-Dissolved | | | 103.5 | | % | | 70-130 | 18-MAR-22 |
| Magnesium (Mg)-Dissolved | | | N/A | MS-B | % | | - | 18-MAR-22 |
| Manganese (Mn)-Dissolved | | | 98.5 | | % | | 70-130 | 18-MAR-22 |
| Molybdenum (Mo)-Dissolved | | | 98.9 | | % | | 70-130 | 18-MAR-22 |
| Nickel (Ni)-Dissolved | | | 97.6 | | % | | 70-130 | 18-MAR-22 |
| Phosphorus (P)-Dissolved | | | 101.4 | | % | | 70-130 | 18-MAR-22 |
| Potassium (K)-Dissolved | | | 96.0 | | % | | 70-130 | 18-MAR-22 |
| Rubidium (Rb)-Dissolved | | | 101.0 | | % | | 70-130 | 18-MAR-22 |
| Selenium (Se)-Dissolved | | | 106.3 | | % | | 70-130 | 18-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|----------|--------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5748480 | | | | | | | |
| WG3706646-4 MS | | L2691886-14 | | | | | | |
| Silicon (Si)-Dissolved | | | 91.4 | | % | | 70-130 | 18-MAR-22 |
| Silver (Ag)-Dissolved | | | 95.7 | | % | | 70-130 | 18-MAR-22 |
| Sodium (Na)-Dissolved | | | N/A | MS-B | % | | - | 18-MAR-22 |
| Strontium (Sr)-Dissolved | | | N/A | MS-B | % | | - | 18-MAR-22 |
| Sulfur (S)-Dissolved | | | 101.0 | | % | | 70-130 | 18-MAR-22 |
| Tellurium (Te)-Dissolved | | | 103.4 | | % | | 70-130 | 18-MAR-22 |
| Thallium (Tl)-Dissolved | | | 96.1 | | % | | 70-130 | 18-MAR-22 |
| Thorium (Th)-Dissolved | | | 100.8 | | % | | 70-130 | 18-MAR-22 |
| Tin (Sn)-Dissolved | | | 98.8 | | % | | 70-130 | 18-MAR-22 |
| Titanium (Ti)-Dissolved | | | 102.5 | | % | | 70-130 | 18-MAR-22 |
| Tungsten (W)-Dissolved | | | 102.2 | | % | | 70-130 | 18-MAR-22 |
| Uranium (U)-Dissolved | | | 98.2 | | % | | 70-130 | 18-MAR-22 |
| Vanadium (V)-Dissolved | | | 101.5 | | % | | 70-130 | 18-MAR-22 |
| Zinc (Zn)-Dissolved | | | 96.9 | | % | | 70-130 | 18-MAR-22 |
| Zirconium (Zr)-Dissolved | | | 99.3 | | % | | 70-130 | 18-MAR-22 |
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5748948 | | | | | | | |
| WG3706066-3 DUP | | L2691886-10 | | | | | | |
| Aluminum (Al)-Total | | 0.128 | 0.127 | | mg/L | 0.8 | 20 | 21-MAR-22 |
| Antimony (Sb)-Total | | 0.000060 | 0.000055 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Arsenic (As)-Total | | 0.00098 | 0.00096 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Barium (Ba)-Total | | 0.0262 | 0.0254 | | mg/L | 3.0 | 20 | 21-MAR-22 |
| Beryllium (Be)-Total | | 0.0000132 | 0.0000183 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Bismuth (Bi)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Boron (B)-Total | | 0.0130 | 0.0130 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Cadmium (Cd)-Total | | 0.000008 | 0.000007 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Calcium (Ca)-Total | | 49.3 | 48.9 | | mg/L | 0.9 | 20 | 21-MAR-22 |
| Cesium (Cs)-Total | | 0.0000135 | 0.0000135 | | mg/L | 0.1 | 20 | 21-MAR-22 |
| Chromium (Cr)-Total | | 0.00066 | 0.00062 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Cobalt (Co)-Total | | 0.000895 | 0.000915 | | mg/L | 2.1 | 20 | 21-MAR-22 |
| Copper (Cu)-Total | | 0.00050 | 0.00044 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Iron (Fe)-Total | | 1.33 | 1.34 | | mg/L | 0.1 | 20 | 21-MAR-22 |
| Lead (Pb)-Total | | 0.00015 | 0.00024 | J | mg/L | 0.000083 | 0.0001 | 21-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|-----------|-----------|-------|--------|-------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5748948 | | | | | | | |
| WG3706066-3 | DUP | L2691886-10 | | | | | | |
| Lithium (Li)-Total | | 0.0070 | 0.0068 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Magnesium (Mg)-Total | | 20.8 | 21.5 | | mg/L | 2.9 | 20 | 21-MAR-22 |
| Manganese (Mn)-Total | | 0.549 | 0.563 | | mg/L | 2.4 | 20 | 21-MAR-22 |
| Molybdenum (Mo)-Total | | 0.000170 | 0.000170 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Nickel (Ni)-Total | | 0.00190 | 0.00190 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Phosphorus (P)-Total | | 0.110 | 0.120 | | mg/L | 9.2 | 20 | 21-MAR-22 |
| Potassium (K)-Total | | 1.96 | 1.98 | | mg/L | 1.4 | 20 | 21-MAR-22 |
| Rubidium (Rb)-Total | | 0.00183 | 0.00182 | | mg/L | 0.7 | 20 | 21-MAR-22 |
| Selenium (Se)-Total | | 0.000155 | 0.000140 | | mg/L | 11 | 20 | 21-MAR-22 |
| Silicon (Si)-Total | | 8.23 | 8.32 | | mg/L | 1.0 | 20 | 21-MAR-22 |
| Silver (Ag)-Total | | <0.000001 | <0.000001 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Sodium (Na)-Total | | 6.76 | 6.93 | | mg/L | 2.4 | 20 | 21-MAR-22 |
| Strontium (Sr)-Total | | 0.119 | 0.119 | | mg/L | 0.0 | 20 | 21-MAR-22 |
| Sulfur (S)-Total | | 3.0 | 2.8 | | mg/L | 5.5 | 20 | 21-MAR-22 |
| Tellurium (Te)-Total | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Thallium (Tl)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Thorium (Th)-Total | | 0.00002 | 0.00002 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Tin (Sn)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Titanium (Ti)-Total | | 0.00401 | 0.00385 | | mg/L | 4.0 | 20 | 21-MAR-22 |
| Tungsten (W)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Uranium (U)-Total | | 0.000627 | 0.000617 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Vanadium (V)-Total | | 0.00080 | 0.00080 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Zinc (Zn)-Total | | 0.0050 | 0.0085 | J | mg/L | 0.0038 | 0.006 | 21-MAR-22 |
| Zirconium (Zr)-Total | | 0.000358 | 0.000344 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| WG3706066-7 | DUP | L2691886-13 | | | | | | |
| Aluminum (Al)-Total | | 0.270 | 0.269 | | mg/L | 0.3 | 20 | 21-MAR-22 |
| Antimony (Sb)-Total | | 0.000075 | 0.000080 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Arsenic (As)-Total | | 0.00123 | 0.00118 | | mg/L | 4.4 | 20 | 21-MAR-22 |
| Barium (Ba)-Total | | 0.0184 | 0.0181 | | mg/L | 1.3 | 20 | 21-MAR-22 |
| Beryllium (Be)-Total | | 0.0000250 | 0.0000301 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Bismuth (Bi)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Boron (B)-Total | | 0.0110 | 0.0115 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Cadmium (Cd)-Total | | 0.000017 | 0.000015 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5748948 | | | | | | | |
| WG3706066-7 | DUP | L2691886-13 | | | | | | |
| Calcium (Ca)-Total | | 50.3 | 50.3 | | mg/L | 0.0 | 20 | 21-MAR-22 |
| Cesium (Cs)-Total | | 0.0000380 | 0.0000330 | | mg/L | 15 | 20 | 21-MAR-22 |
| Chromium (Cr)-Total | | 0.00090 | 0.00090 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Cobalt (Co)-Total | | 0.000855 | 0.000805 | | mg/L | 5.9 | 20 | 21-MAR-22 |
| Copper (Cu)-Total | | 0.00132 | 0.00132 | | mg/L | 0.6 | 20 | 21-MAR-22 |
| Iron (Fe)-Total | | 1.81 | 1.81 | | mg/L | 0.1 | 20 | 21-MAR-22 |
| Lead (Pb)-Total | | 0.00036 | 0.00036 | | mg/L | 0.3 | 20 | 21-MAR-22 |
| Lithium (Li)-Total | | 0.0068 | 0.0066 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Magnesium (Mg)-Total | | 22.1 | 21.8 | | mg/L | 1.7 | 20 | 21-MAR-22 |
| Manganese (Mn)-Total | | 0.423 | 0.418 | | mg/L | 1.1 | 20 | 21-MAR-22 |
| Molybdenum (Mo)-Total | | 0.000225 | 0.000205 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Nickel (Ni)-Total | | 0.00250 | 0.00250 | | mg/L | 0.1 | 20 | 21-MAR-22 |
| Phosphorus (P)-Total | | 0.105 | 0.100 | | mg/L | 3.7 | 20 | 21-MAR-22 |
| Potassium (K)-Total | | 1.96 | 1.90 | | mg/L | 3.0 | 20 | 21-MAR-22 |
| Rubidium (Rb)-Total | | 0.00216 | 0.00220 | | mg/L | 1.7 | 20 | 21-MAR-22 |
| Selenium (Se)-Total | | 0.000190 | 0.000185 | | mg/L | 4.5 | 20 | 21-MAR-22 |
| Silicon (Si)-Total | | 8.86 | 9.00 | | mg/L | 1.6 | 20 | 21-MAR-22 |
| Silver (Ag)-Total | | 0.000001 | 0.000001 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Sodium (Na)-Total | | 5.79 | 5.64 | | mg/L | 2.7 | 20 | 21-MAR-22 |
| Strontium (Sr)-Total | | 0.114 | 0.110 | | mg/L | 3.9 | 20 | 21-MAR-22 |
| Sulfur (S)-Total | | 2.4 | 2.4 | | mg/L | 0.5 | 20 | 21-MAR-22 |
| Tellurium (Te)-Total | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Thallium (Tl)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Thorium (Th)-Total | | 0.00008 | 0.00007 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Tin (Sn)-Total | | 0.00001 | 0.00001 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Titanium (Ti)-Total | | 0.00943 | 0.00966 | | mg/L | 2.4 | 20 | 21-MAR-22 |
| Tungsten (W)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Uranium (U)-Total | | 0.000854 | 0.000855 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| Vanadium (V)-Total | | 0.00140 | 0.00140 | | mg/L | 2.4 | 20 | 21-MAR-22 |
| Zinc (Zn)-Total | | 0.0040 | 0.0045 | | mg/L | 19 | 20 | 21-MAR-22 |
| Zirconium (Zr)-Total | | 0.000652 | 0.000640 | RPD-NA | mg/L | N/A | 20 | 21-MAR-22 |
| WG3706066-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 111.5 | | % | | 80-120 | 21-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5748948 | | | | | | | |
| WG3706066-2 | LCS | | | | | | | |
| Antimony (Sb)-Total | | | 106.8 | | % | | 80-120 | 21-MAR-22 |
| Arsenic (As)-Total | | | 106.4 | | % | | 80-120 | 21-MAR-22 |
| Barium (Ba)-Total | | | 110.1 | | % | | 80-120 | 21-MAR-22 |
| Beryllium (Be)-Total | | | 111.8 | | % | | 80-120 | 21-MAR-22 |
| Bismuth (Bi)-Total | | | 105.2 | | % | | 80-120 | 21-MAR-22 |
| Boron (B)-Total | | | 107.1 | | % | | 80-120 | 21-MAR-22 |
| Cadmium (Cd)-Total | | | 103.6 | | % | | 80-120 | 21-MAR-22 |
| Calcium (Ca)-Total | | | 106.0 | | % | | 80-120 | 21-MAR-22 |
| Cesium (Cs)-Total | | | 105.1 | | % | | 80-120 | 21-MAR-22 |
| Chromium (Cr)-Total | | | 105.8 | | % | | 80-120 | 21-MAR-22 |
| Cobalt (Co)-Total | | | 104.2 | | % | | 80-120 | 21-MAR-22 |
| Copper (Cu)-Total | | | 101.7 | | % | | 80-120 | 21-MAR-22 |
| Iron (Fe)-Total | | | 111.9 | | % | | 80-120 | 21-MAR-22 |
| Lead (Pb)-Total | | | 107.0 | | % | | 80-120 | 21-MAR-22 |
| Lithium (Li)-Total | | | 118.4 | | % | | 80-120 | 21-MAR-22 |
| Magnesium (Mg)-Total | | | 110.7 | | % | | 80-120 | 21-MAR-22 |
| Manganese (Mn)-Total | | | 105.7 | | % | | 80-120 | 21-MAR-22 |
| Molybdenum (Mo)-Total | | | 107.8 | | % | | 80-120 | 21-MAR-22 |
| Nickel (Ni)-Total | | | 102.9 | | % | | 80-120 | 21-MAR-22 |
| Phosphorus (P)-Total | | | 112.7 | | % | | 80-120 | 21-MAR-22 |
| Potassium (K)-Total | | | 107.1 | | % | | 80-120 | 21-MAR-22 |
| Rubidium (Rb)-Total | | | 109.5 | | % | | 80-120 | 21-MAR-22 |
| Selenium (Se)-Total | | | 107.0 | | % | | 80-120 | 21-MAR-22 |
| Silicon (Si)-Total | | | 107.6 | | % | | 80-120 | 21-MAR-22 |
| Silver (Ag)-Total | | | 99.8 | | % | | 80-120 | 21-MAR-22 |
| Sodium (Na)-Total | | | 110.4 | | % | | 80-120 | 21-MAR-22 |
| Strontium (Sr)-Total | | | 103.9 | | % | | 80-120 | 21-MAR-22 |
| Sulfur (S)-Total | | | 115.0 | | % | | 80-120 | 21-MAR-22 |
| Tellurium (Te)-Total | | | 101.9 | | % | | 80-120 | 21-MAR-22 |
| Thallium (Tl)-Total | | | 105.6 | | % | | 80-120 | 21-MAR-22 |
| Thorium (Th)-Total | | | 101.0 | | % | | 80-120 | 21-MAR-22 |
| Tin (Sn)-Total | | | 103.9 | | % | | 80-120 | 21-MAR-22 |
| Titanium (Ti)-Total | | | 106.9 | | % | | 80-120 | 21-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5748948 | | | | | | | |
| WG3706066-2 LCS | | | | | | | | |
| Tungsten (W)-Total | | | 111.2 | | % | | 80-120 | 21-MAR-22 |
| Uranium (U)-Total | | | 105.2 | | % | | 80-120 | 21-MAR-22 |
| Vanadium (V)-Total | | | 105.2 | | % | | 80-120 | 21-MAR-22 |
| Zinc (Zn)-Total | | | 110.2 | | % | | 80-120 | 21-MAR-22 |
| Zirconium (Zr)-Total | | | 97.4 | | % | | 80-120 | 21-MAR-22 |
| WG3706066-6 LCS | | | | | | | | |
| Aluminum (Al)-Total | | | 108.2 | | % | | 80-120 | 21-MAR-22 |
| Antimony (Sb)-Total | | | 106.9 | | % | | 80-120 | 21-MAR-22 |
| Arsenic (As)-Total | | | 106.7 | | % | | 80-120 | 21-MAR-22 |
| Barium (Ba)-Total | | | 109.5 | | % | | 80-120 | 21-MAR-22 |
| Beryllium (Be)-Total | | | 103.5 | | % | | 80-120 | 21-MAR-22 |
| Bismuth (Bi)-Total | | | 110.0 | | % | | 80-120 | 21-MAR-22 |
| Boron (B)-Total | | | 96.3 | | % | | 80-120 | 21-MAR-22 |
| Cadmium (Cd)-Total | | | 103.0 | | % | | 80-120 | 21-MAR-22 |
| Calcium (Ca)-Total | | | 104.9 | | % | | 80-120 | 21-MAR-22 |
| Cesium (Cs)-Total | | | 105.0 | | % | | 80-120 | 21-MAR-22 |
| Chromium (Cr)-Total | | | 105.3 | | % | | 80-120 | 21-MAR-22 |
| Cobalt (Co)-Total | | | 105.1 | | % | | 80-120 | 21-MAR-22 |
| Copper (Cu)-Total | | | 104.0 | | % | | 80-120 | 21-MAR-22 |
| Iron (Fe)-Total | | | 112.7 | | % | | 80-120 | 21-MAR-22 |
| Lead (Pb)-Total | | | 110.1 | | % | | 80-120 | 21-MAR-22 |
| Lithium (Li)-Total | | | 105.0 | | % | | 80-120 | 21-MAR-22 |
| Magnesium (Mg)-Total | | | 108.7 | | % | | 80-120 | 21-MAR-22 |
| Manganese (Mn)-Total | | | 104.1 | | % | | 80-120 | 21-MAR-22 |
| Molybdenum (Mo)-Total | | | 106.7 | | % | | 80-120 | 21-MAR-22 |
| Nickel (Ni)-Total | | | 102.4 | | % | | 80-120 | 21-MAR-22 |
| Phosphorus (P)-Total | | | 111.4 | | % | | 80-120 | 21-MAR-22 |
| Potassium (K)-Total | | | 106.5 | | % | | 80-120 | 21-MAR-22 |
| Rubidium (Rb)-Total | | | 109.5 | | % | | 80-120 | 21-MAR-22 |
| Selenium (Se)-Total | | | 107.5 | | % | | 80-120 | 21-MAR-22 |
| Silicon (Si)-Total | | | 104.9 | | % | | 80-120 | 21-MAR-22 |
| Silver (Ag)-Total | | | 97.0 | | % | | 80-120 | 21-MAR-22 |
| Sodium (Na)-Total | | | 109.0 | | % | | 80-120 | 21-MAR-22 |
| Strontium (Sr)-Total | | | 101.1 | | % | | 80-120 | 21-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5748948 | | | | | | | |
| WG3706066-6 | LCS | | | | | | | |
| Sulfur (S)-Total | | | 118.2 | | % | | 80-120 | 21-MAR-22 |
| Tellurium (Te)-Total | | | 104.1 | | % | | 80-120 | 21-MAR-22 |
| Thallium (Tl)-Total | | | 109.3 | | % | | 80-120 | 21-MAR-22 |
| Thorium (Th)-Total | | | 105.0 | | % | | 80-120 | 21-MAR-22 |
| Tin (Sn)-Total | | | 104.9 | | % | | 80-120 | 21-MAR-22 |
| Titanium (Ti)-Total | | | 102.8 | | % | | 80-120 | 21-MAR-22 |
| Tungsten (W)-Total | | | 114.7 | | % | | 80-120 | 21-MAR-22 |
| Uranium (U)-Total | | | 107.2 | | % | | 80-120 | 21-MAR-22 |
| Vanadium (V)-Total | | | 103.3 | | % | | 80-120 | 21-MAR-22 |
| Zinc (Zn)-Total | | | 104.9 | | % | | 80-120 | 21-MAR-22 |
| Zirconium (Zr)-Total | | | 99.1 | | % | | 80-120 | 21-MAR-22 |
| WG3706066-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | 0.0014 | | mg/L | | 0.005 | 21-MAR-22 |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 21-MAR-22 |
| Arsenic (As)-Total | | | 0.00003 | | mg/L | | 0.001 | 21-MAR-22 |
| Barium (Ba)-Total | | | <0.00001 | | mg/L | | 0.01 | 21-MAR-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 21-MAR-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 21-MAR-22 |
| Boron (B)-Total | | | 0.0010 | | mg/L | | 0.05 | 21-MAR-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 21-MAR-22 |
| Calcium (Ca)-Total | | | <0.002 | | mg/L | | 0.2 | 21-MAR-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 21-MAR-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 21-MAR-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 21-MAR-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 21-MAR-22 |
| Iron (Fe)-Total | | | 0.0010 | | mg/L | | 0.02 | 21-MAR-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 21-MAR-22 |
| Lithium (Li)-Total | | | <0.0002 | | mg/L | | 0.05 | 21-MAR-22 |
| Magnesium (Mg)-Total | | | <0.0002 | | mg/L | | 0.02 | 21-MAR-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 21-MAR-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 21-MAR-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 21-MAR-22 |
| Phosphorus (P)-Total | | | 0.020 | | mg/L | | 0.05 | 21-MAR-22 |
| Potassium (K)-Total | | | 0.01 | | mg/L | | 0.5 | 21-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5748948 | | | | | | | |
| WG3706066-1 MB | | | | | | | | |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 21-MAR-22 |
| Selenium (Se)-Total | | | <0.000005 | | mg/L | | 0.00005 | 21-MAR-22 |
| Silicon (Si)-Total | | | 0.024 | | mg/L | | 0.1 | 21-MAR-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 21-MAR-22 |
| Sodium (Na)-Total | | | <0.005 | | mg/L | | 0.1 | 21-MAR-22 |
| Strontium (Sr)-Total | | | <0.000005 | | mg/L | | 0.001 | 21-MAR-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 21-MAR-22 |
| Tellurium (Te)-Total | | | <0.00002 | | mg/L | | 0.001 | 21-MAR-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 21-MAR-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 21-MAR-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 21-MAR-22 |
| Titanium (Ti)-Total | | | 0.00002 | | mg/L | | 0.002 | 21-MAR-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 21-MAR-22 |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.005 | 21-MAR-22 |
| Vanadium (V)-Total | | | 0.00015 | | mg/L | | 0.001 | 21-MAR-22 |
| Zinc (Zn)-Total | | | 0.0035 | MB-LOR | mg/L | | 0.003 | 21-MAR-22 |
| Zirconium (Zr)-Total | | | <0.000002 | | mg/L | | 0.001 | 21-MAR-22 |
| WG3706066-5 MB | | | | | | | | |
| Aluminum (Al)-Total | | | 0.0012 | | mg/L | | 0.005 | 21-MAR-22 |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 21-MAR-22 |
| Arsenic (As)-Total | | | 0.00003 | | mg/L | | 0.001 | 21-MAR-22 |
| Barium (Ba)-Total | | | <0.00001 | | mg/L | | 0.01 | 21-MAR-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 21-MAR-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 21-MAR-22 |
| Boron (B)-Total | | | 0.0010 | | mg/L | | 0.05 | 21-MAR-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 21-MAR-22 |
| Calcium (Ca)-Total | | | <0.002 | | mg/L | | 0.2 | 21-MAR-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 21-MAR-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 21-MAR-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 21-MAR-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 21-MAR-22 |
| Iron (Fe)-Total | | | 0.0010 | | mg/L | | 0.02 | 21-MAR-22 |
| Lead (Pb)-Total | | | 0.00001 | | mg/L | | 0.00005 | 21-MAR-22 |
| Lithium (Li)-Total | | | 0.0002 | | mg/L | | 0.05 | 21-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|------------|-----------|-------|-----|---------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5748948 | | | | | | | |
| WG3706066-5 MB | | | | | | | | |
| Magnesium (Mg)-Total | | | 0.0004 | | mg/L | | 0.02 | 21-MAR-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 21-MAR-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 21-MAR-22 |
| Nickel (Ni)-Total | | | 0.00004 | | mg/L | | 0.002 | 21-MAR-22 |
| Phosphorus (P)-Total | | | 0.015 | | mg/L | | 0.05 | 21-MAR-22 |
| Potassium (K)-Total | | | 0.01 | | mg/L | | 0.5 | 21-MAR-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 21-MAR-22 |
| Selenium (Se)-Total | | | <0.000005 | | mg/L | | 0.00005 | 21-MAR-22 |
| Silicon (Si)-Total | | | 0.026 | | mg/L | | 0.1 | 21-MAR-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 21-MAR-22 |
| Sodium (Na)-Total | | | 0.005 | | mg/L | | 0.1 | 21-MAR-22 |
| Strontium (Sr)-Total | | | <0.000005 | | mg/L | | 0.001 | 21-MAR-22 |
| Sulfur (S)-Total | | | 0.2 | | mg/L | | 0.5 | 21-MAR-22 |
| Tellurium (Te)-Total | | | <0.00002 | | mg/L | | 0.001 | 21-MAR-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 21-MAR-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 21-MAR-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 21-MAR-22 |
| Titanium (Ti)-Total | | | 0.00002 | | mg/L | | 0.002 | 21-MAR-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 21-MAR-22 |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.005 | 21-MAR-22 |
| Vanadium (V)-Total | | | 0.00015 | | mg/L | | 0.001 | 21-MAR-22 |
| Zinc (Zn)-Total | | | 0.0030 | | mg/L | | 0.003 | 21-MAR-22 |
| Zirconium (Zr)-Total | | | <0.000002 | | mg/L | | 0.001 | 21-MAR-22 |
| WG3706066-4 MS | | L2691886-11 | | | | | | |
| Antimony (Sb)-Total | | | 105.5 | | % | | 70-130 | 21-MAR-22 |
| Arsenic (As)-Total | | | 105.8 | | % | | 70-130 | 21-MAR-22 |
| Barium (Ba)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Beryllium (Be)-Total | | | 115.1 | | % | | 70-130 | 21-MAR-22 |
| Bismuth (Bi)-Total | | | 103.8 | | % | | 70-130 | 21-MAR-22 |
| Boron (B)-Total | | | 122.8 | | % | | 70-130 | 21-MAR-22 |
| Cadmium (Cd)-Total | | | 105.2 | | % | | 70-130 | 21-MAR-22 |
| Calcium (Ca)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Cesium (Cs)-Total | | | 106.3 | | % | | 70-130 | 21-MAR-22 |
| Chromium (Cr)-Total | | | 108.7 | | % | | 70-130 | 21-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5748948 | | | | | | | |
| WG3706066-4 MS | | L2691886-11 | | | | | | |
| Cobalt (Co)-Total | | | 106.3 | | % | | 70-130 | 21-MAR-22 |
| Copper (Cu)-Total | | | 103.2 | | % | | 70-130 | 21-MAR-22 |
| Iron (Fe)-Total | | | 107.0 | | % | | 70-130 | 21-MAR-22 |
| Lead (Pb)-Total | | | 104.6 | | % | | 70-130 | 21-MAR-22 |
| Lithium (Li)-Total | | | 109.9 | | % | | 70-130 | 21-MAR-22 |
| Magnesium (Mg)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Manganese (Mn)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Molybdenum (Mo)-Total | | | 108.8 | | % | | 70-130 | 21-MAR-22 |
| Nickel (Ni)-Total | | | 104.0 | | % | | 70-130 | 21-MAR-22 |
| Phosphorus (P)-Total | | | 113.4 | | % | | 70-130 | 21-MAR-22 |
| Potassium (K)-Total | | | 106.2 | | % | | 70-130 | 21-MAR-22 |
| Rubidium (Rb)-Total | | | 107.5 | | % | | 70-130 | 21-MAR-22 |
| Selenium (Se)-Total | | | 107.3 | | % | | 70-130 | 21-MAR-22 |
| Silicon (Si)-Total | | | 97.6 | | % | | 70-130 | 21-MAR-22 |
| Silver (Ag)-Total | | | 105.1 | | % | | 70-130 | 21-MAR-22 |
| Sodium (Na)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Strontium (Sr)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Sulfur (S)-Total | | | 109.5 | | % | | 70-130 | 21-MAR-22 |
| Tellurium (Te)-Total | | | 98.7 | | % | | 70-130 | 21-MAR-22 |
| Thallium (Tl)-Total | | | 103.2 | | % | | 70-130 | 21-MAR-22 |
| Thorium (Th)-Total | | | 102.8 | | % | | 70-130 | 21-MAR-22 |
| Tin (Sn)-Total | | | 104.2 | | % | | 70-130 | 21-MAR-22 |
| Titanium (Ti)-Total | | | 110.3 | | % | | 70-130 | 21-MAR-22 |
| Tungsten (W)-Total | | | 109.1 | | % | | 70-130 | 21-MAR-22 |
| Uranium (U)-Total | | | 103.6 | | % | | 70-130 | 21-MAR-22 |
| Vanadium (V)-Total | | | 108.6 | | % | | 70-130 | 21-MAR-22 |
| Zinc (Zn)-Total | | | 106.1 | | % | | 70-130 | 21-MAR-22 |
| Zirconium (Zr)-Total | | | 105.2 | | % | | 70-130 | 21-MAR-22 |
| WG3706066-8 MS | | L2691886-14 | | | | | | |
| Aluminum (Al)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Antimony (Sb)-Total | | | 106.3 | | % | | 70-130 | 21-MAR-22 |
| Arsenic (As)-Total | | | 104.4 | | % | | 70-130 | 21-MAR-22 |
| Barium (Ba)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Beryllium (Be)-Total | | | 112.0 | | % | | 70-130 | 21-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5748948 | | | | | | | |
| WG3706066-8 MS | | L2691886-14 | | | | | | |
| Bismuth (Bi)-Total | | | 101.7 | | % | | 70-130 | 21-MAR-22 |
| Boron (B)-Total | | | 122.3 | | % | | 70-130 | 21-MAR-22 |
| Cadmium (Cd)-Total | | | 103.6 | | % | | 70-130 | 21-MAR-22 |
| Calcium (Ca)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Cesium (Cs)-Total | | | 107.9 | | % | | 70-130 | 21-MAR-22 |
| Chromium (Cr)-Total | | | 113.7 | | % | | 70-130 | 21-MAR-22 |
| Cobalt (Co)-Total | | | 106.7 | | % | | 70-130 | 21-MAR-22 |
| Copper (Cu)-Total | | | 103.0 | | % | | 70-130 | 21-MAR-22 |
| Iron (Fe)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Lead (Pb)-Total | | | 104.1 | | % | | 70-130 | 21-MAR-22 |
| Lithium (Li)-Total | | | 118.1 | | % | | 70-130 | 21-MAR-22 |
| Magnesium (Mg)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Manganese (Mn)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Molybdenum (Mo)-Total | | | 107.9 | | % | | 70-130 | 21-MAR-22 |
| Nickel (Ni)-Total | | | 104.0 | | % | | 70-130 | 21-MAR-22 |
| Phosphorus (P)-Total | | | 108.9 | | % | | 70-130 | 21-MAR-22 |
| Potassium (K)-Total | | | 113.6 | | % | | 70-130 | 21-MAR-22 |
| Rubidium (Rb)-Total | | | 118.0 | | % | | 70-130 | 21-MAR-22 |
| Selenium (Se)-Total | | | 109.9 | | % | | 70-130 | 21-MAR-22 |
| Silicon (Si)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Silver (Ag)-Total | | | 105.0 | | % | | 70-130 | 21-MAR-22 |
| Sodium (Na)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Strontium (Sr)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Sulfur (S)-Total | | | 106.1 | | % | | 70-130 | 21-MAR-22 |
| Tellurium (Te)-Total | | | 100.0 | | % | | 70-130 | 21-MAR-22 |
| Thallium (Tl)-Total | | | 101.6 | | % | | 70-130 | 21-MAR-22 |
| Thorium (Th)-Total | | | 102.2 | | % | | 70-130 | 21-MAR-22 |
| Tin (Sn)-Total | | | 103.7 | | % | | 70-130 | 21-MAR-22 |
| Titanium (Ti)-Total | | | N/A | MS-B | % | | - | 21-MAR-22 |
| Tungsten (W)-Total | | | 106.2 | | % | | 70-130 | 21-MAR-22 |
| Uranium (U)-Total | | | 102.0 | | % | | 70-130 | 21-MAR-22 |
| Vanadium (V)-Total | | | 111.0 | | % | | 70-130 | 21-MAR-22 |
| Zinc (Zn)-Total | | | 103.7 | | % | | 70-130 | 21-MAR-22 |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|--------|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5748948 | | | | | | | |
| WG3706066-8 MS | | L2691886-14 | | | | | | |
| Zirconium (Zr)-Total | | | 107.1 | | % | | 70-130 | 21-MAR-22 |
| NH3-MISA-F-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5747747 | | | | | | | |
| WG3705703-3 DUP | | L2691880-2 | | | | | | |
| Ammonia, Total (as N) | | 0.006 | 0.006 | J | mg/L | 0.0015 | 0.01 | 18-MAR-22 |
| WG3705703-2 LCS | | | 98.8 | | % | | 85-115 | 18-MAR-22 |
| Ammonia, Total (as N) | | | | | | | | |
| WG3705703-1 MB | | | <0.002 | | mg/L | | 0.005 | 18-MAR-22 |
| Ammonia, Total (as N) | | | | | | | | |
| WG3705703-4 MS | | L2691886-1 | | | | | | |
| Ammonia, Total (as N) | | | 99.6 | | % | | 75-125 | 18-MAR-22 |
| Batch | R5750358 | | | | | | | |
| WG3708182-3 DUP | | L2691886-15 | | | | | | |
| Ammonia, Total (as N) | | 0.010 | 0.010 | | mg/L | 0.0 | 20 | 25-MAR-22 |
| WG3708182-2 LCS | | | 98.1 | | % | | 85-115 | 25-MAR-22 |
| Ammonia, Total (as N) | | | | | | | | |
| WG3708182-1 MB | | | <0.002 | | mg/L | | 0.005 | 25-MAR-22 |
| Ammonia, Total (as N) | | | | | | | | |
| WG3708182-4 MS | | L2692577-1 | | | | | | |
| Ammonia, Total (as N) | | | N/A | MS-B | % | | - | 25-MAR-22 |
| NO2-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5744503 | | | | | | | |
| WG3705376-2 LCS | | | | | | | | |
| Nitrite (as N) | | | 101.1 | | % | | 90-110 | 15-MAR-22 |
| WG3705376-1 MB | | | 0.002 | | mg/L | | 0.01 | 15-MAR-22 |
| Nitrite (as N) | | | | | | | | |
| NO3-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5744503 | | | | | | | |
| WG3705376-2 LCS | | | | | | | | |
| Nitrate (as N) | | | 100.2 | | % | | 90-110 | 15-MAR-22 |
| WG3705376-1 MB | | | <0.002 | | mg/L | | 0.02 | 15-MAR-22 |
| Nitrate (as N) | | | | | | | | |
| OGG-TOT-WT | | | | | | | | |
| | Effluent | | | | | | | |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|----------|-----------------|--------|-----------|-------|------|---------|-----------|
| OGG-TOT-WT | | Effluent | | | | | | |
| Batch | R5744717 | | | | | | | |
| WG3706154-2 | LCS | | 98.9 | | % | | 50-150 | 15-MAR-22 |
| Oil and Grease, Total | | | | | | | | |
| WG3706154-1 | MB | | 0.4 | | mg/L | | 1 | 15-MAR-22 |
| Oil and Grease, Total | | | | | | | | |
| PH-MISA-TB | | Effluent | | | | | | |
| Batch | R5741623 | | | | | | | |
| WG3705371-3 | DUP | L2691886-14 | 7.54 | 7.55 | J | pH | 0.01 | 0.2 |
| pH | | | | | | | | 12-MAR-22 |
| WG3705371-2 | LCS | | 6.93 | | pH | | 6.9-7.1 | 12-MAR-22 |
| pH | | | | | | | | |
| SO4-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5744503 | | | | | | | |
| WG3705376-2 | LCS | | 100.9 | | % | | 90-110 | 15-MAR-22 |
| Sulfate (SO4) | | | | | | | | |
| WG3705376-1 | MB | | <0.05 | | mg/L | | 0.3 | 15-MAR-22 |
| Sulfate (SO4) | | | | | | | | |
| TDS-MISA-TB | | Effluent | | | | | | |
| Batch | R5743338 | | | | | | | |
| WG3705632-3 | DUP | L2691886-10 | 262 | 260 | | mg/L | 0.8 | 20 |
| Total Dissolved Solids | | | | | | | | 14-MAR-22 |
| WG3705632-2 | LCS | | 96.7 | | % | | 85-115 | 14-MAR-22 |
| Total Dissolved Solids | | | | | | | | |
| WG3705632-1 | MB | | <2 | | mg/L | | 10 | 14-MAR-22 |
| Total Dissolved Solids | | | | | | | | |
| Batch | R5744500 | | | | | | | |
| WG3706153-2 | LCS | | 96.8 | | % | | 85-115 | 15-MAR-22 |
| Total Dissolved Solids | | | | | | | | |
| WG3706153-1 | MB | | 2 | | mg/L | | 10 | 15-MAR-22 |
| Total Dissolved Solids | | | | | | | | |
| TSS-MISA-TB | | Effluent | | | | | | |
| Batch | R5743339 | | | | | | | |
| WG3705629-3 | DUP | L2691886-10 | 4.0 | 4.0 | | mg/L | 5.0 | 20 |
| Total Suspended Solids | | | | | | | | 14-MAR-22 |
| WG3705629-2 | LCS | | 93.8 | | % | | 85-115 | 14-MAR-22 |
| Total Suspended Solids | | | | | | | | |
| WG3705629-1 | MB | | <0.5 | | mg/L | | 3 | 14-MAR-22 |
| Total Suspended Solids | | | | | | | | |



Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|--------|-----------|
| TSS-MISA-TB | Effluent | | | | | | | |
| Batch | R5744483 | | | | | | | |
| WG3706156-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 93.8 | | % | | 85-115 | 15-MAR-22 |
| WG3706156-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 15-MAR-22 |

Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MB-LOR | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0
 Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|---|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Colour, True | | | | | | | |
| | 1 | 08-MAR-22 12:00 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| | 2 | 08-MAR-22 10:00 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| | 3 | 08-MAR-22 15:10 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| | 4 | 08-MAR-22 12:00 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| | 5 | 08-MAR-22 11:45 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| | 6 | 08-MAR-22 13:00 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| | 7 | 08-MAR-22 11:30 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| | 8 | 08-MAR-22 12:20 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| | 9 | 08-MAR-22 12:15 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| | 10 | 08-MAR-22 11:50 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| | 11 | 08-MAR-22 09:10 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| | 12 | 08-MAR-22 14:00 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| | 13 | 08-MAR-22 14:20 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| | 14 | 08-MAR-22 14:00 | 12-MAR-22 12:30 | 3 | 4 | days | EHTR |
| Turbidity | | | | | | | |
| | 1 | 08-MAR-22 12:00 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| | 2 | 08-MAR-22 10:00 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| | 3 | 08-MAR-22 15:10 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| | 4 | 08-MAR-22 12:00 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| | 5 | 08-MAR-22 11:45 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| | 6 | 08-MAR-22 13:00 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| | 7 | 08-MAR-22 11:30 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| | 8 | 08-MAR-22 12:20 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| | 9 | 08-MAR-22 12:15 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| | 10 | 08-MAR-22 11:50 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| | 11 | 08-MAR-22 09:10 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| | 12 | 08-MAR-22 14:00 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| | 13 | 08-MAR-22 14:20 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| | 14 | 08-MAR-22 14:00 | 12-MAR-22 15:45 | 3 | 4 | days | EHTR |
| Leachable Anions & Nutrients | | | | | | | |
| Nitrate in Water by IC | | | | | | | |
| | 1 | 08-MAR-22 12:00 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 2 | 08-MAR-22 10:00 | 15-MAR-22 12:31 | 5 | 7 | days | EHTL |
| | 3 | 08-MAR-22 15:10 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 4 | 08-MAR-22 12:00 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 5 | 08-MAR-22 11:45 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 6 | 08-MAR-22 13:00 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 7 | 08-MAR-22 11:30 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 8 | 08-MAR-22 12:20 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 9 | 08-MAR-22 12:15 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 10 | 08-MAR-22 11:50 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 11 | 08-MAR-22 09:10 | 15-MAR-22 12:31 | 5 | 7 | days | EHTL |
| | 12 | 08-MAR-22 14:00 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 13 | 08-MAR-22 14:20 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 14 | 08-MAR-22 14:00 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| Nitrite in Water by IC | | | | | | | |
| | 1 | 08-MAR-22 12:00 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 2 | 08-MAR-22 10:00 | 15-MAR-22 12:31 | 5 | 7 | days | EHTL |
| | 3 | 08-MAR-22 15:10 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 4 | 08-MAR-22 12:00 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 5 | 08-MAR-22 11:45 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |

Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0
 Contact: Garnet Cornell

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|---|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Leachable Anions & Nutrients | | | | | | | |
| Nitrite in Water by IC | | | | | | | |
| | 6 | 08-MAR-22 13:00 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 7 | 08-MAR-22 11:30 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 8 | 08-MAR-22 12:20 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 9 | 08-MAR-22 12:15 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 10 | 08-MAR-22 11:50 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 11 | 08-MAR-22 09:10 | 15-MAR-22 12:31 | 5 | 7 | days | EHTL |
| | 12 | 08-MAR-22 14:00 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 13 | 08-MAR-22 14:20 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| | 14 | 08-MAR-22 14:00 | 15-MAR-22 12:31 | 5 | 7 | days | EHT |
| Anions and Nutrients | | | | | | | |
| Ammonia by Discrete Analyzer | | | | | | | |
| | 15 | 10-MAR-22 12:00 | 25-MAR-22 10:00 | 14 | 15 | days | EHT |
| Filtr./Pres. for Carbons Subcontract | | | | | | | |
| | 2 | 08-MAR-22 10:00 | 15-MAR-22 15:30 | 3 | 7 | days | EHTR |
| | 3 | 08-MAR-22 15:10 | 15-MAR-22 15:30 | 3 | 7 | days | EHTR |
| | 4 | 08-MAR-22 12:00 | 15-MAR-22 15:30 | 3 | 7 | days | EHTR |
| | 5 | 08-MAR-22 11:45 | 15-MAR-22 15:30 | 3 | 7 | days | EHTR |
| | 6 | 08-MAR-22 13:00 | 15-MAR-22 15:30 | 3 | 7 | days | EHTR |
| | 7 | 08-MAR-22 11:30 | 15-MAR-22 15:30 | 3 | 7 | days | EHTR |
| | 8 | 08-MAR-22 12:20 | 15-MAR-22 15:30 | 3 | 7 | days | EHTR |
| | 9 | 08-MAR-22 12:15 | 15-MAR-22 15:30 | 3 | 7 | days | EHTR |
| | 10 | 08-MAR-22 11:50 | 15-MAR-22 15:30 | 3 | 7 | days | EHTR |
| | 11 | 08-MAR-22 09:10 | 15-MAR-22 15:30 | 3 | 7 | days | EHTR |
| | 12 | 08-MAR-22 14:00 | 15-MAR-22 15:30 | 3 | 7 | days | EHTR |
| | 13 | 08-MAR-22 14:20 | 15-MAR-22 15:30 | 3 | 7 | days | EHTR |
| | 14 | 08-MAR-22 14:00 | 15-MAR-22 15:30 | 3 | 7 | days | EHTR |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon for MISA | | | | | | | |
| | 2 | 08-MAR-22 10:00 | 19-MAR-22 00:00 | 3 | 11 | days | EHTR |
| | 3 | 08-MAR-22 15:10 | 19-MAR-22 00:00 | 3 | 10 | days | EHTR |
| | 4 | 08-MAR-22 12:00 | 19-MAR-22 00:00 | 3 | 11 | days | EHTR |
| | 5 | 08-MAR-22 11:45 | 19-MAR-22 00:00 | 3 | 11 | days | EHTR |
| | 6 | 08-MAR-22 13:00 | 19-MAR-22 00:00 | 3 | 10 | days | EHTR |
| | 7 | 08-MAR-22 11:30 | 19-MAR-22 00:00 | 3 | 11 | days | EHTR |
| | 8 | 08-MAR-22 12:20 | 19-MAR-22 00:00 | 3 | 10 | days | EHTR |
| | 9 | 08-MAR-22 12:15 | 19-MAR-22 00:00 | 3 | 10 | days | EHTR |
| | 10 | 08-MAR-22 11:50 | 19-MAR-22 00:00 | 3 | 11 | days | EHTR |
| | 11 | 08-MAR-22 09:10 | 19-MAR-22 00:00 | 3 | 11 | days | EHTR |
| | 12 | 08-MAR-22 14:00 | 19-MAR-22 00:00 | 3 | 10 | days | EHTR |
| | 13 | 08-MAR-22 14:20 | 19-MAR-22 00:00 | 3 | 10 | days | EHTR |
| | 14 | 08-MAR-22 14:00 | 21-MAR-22 00:00 | 3 | 12 | days | EHTR |
| | 14 | 08-MAR-22 14:00 | 21-MAR-22 00:00 | 10 | 12 | days | EHT |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand (BOD) | | | | | | | |
| | 1 | 08-MAR-22 12:00 | 13-MAR-22 15:48 | 4 | 5 | days | EHTL |
| | 2 | 08-MAR-22 10:00 | 13-MAR-22 15:48 | 4 | 5 | days | EHTR |
| | 3 | 08-MAR-22 15:10 | 13-MAR-22 15:48 | 4 | 5 | days | EHTL |
| | 4 | 08-MAR-22 12:00 | 13-MAR-22 15:48 | 4 | 5 | days | EHTL |
| | 5 | 08-MAR-22 11:45 | 13-MAR-22 15:48 | 4 | 5 | days | EHTL |
| | 6 | 08-MAR-22 13:00 | 13-MAR-22 15:48 | 4 | 5 | days | EHTL |
| | 7 | 08-MAR-22 11:30 | 13-MAR-22 15:48 | 4 | | | EHTL |

Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|---------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand (BOD) | | | | | | | |
| | 8 | 08-MAR-22 12:20 | 13-MAR-22 15:48 | 4 | 5 | days | EHTL |
| | 9 | 08-MAR-22 12:15 | 13-MAR-22 15:48 | 4 | 5 | days | EHTL |
| | 10 | 08-MAR-22 11:50 | 13-MAR-22 15:48 | 4 | 5 | days | EHTL |
| | 11 | 08-MAR-22 09:10 | 13-MAR-22 15:48 | 4 | 5 | days | EHTR |
| | 12 | 08-MAR-22 14:00 | 13-MAR-22 15:48 | 4 | 5 | days | EHTL |
| | 13 | 08-MAR-22 14:20 | 13-MAR-22 15:48 | 4 | 5 | days | EHTL |
| | 14 | 08-MAR-22 14:00 | 13-MAR-22 15:48 | 4 | 5 | days | EHTL |

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2691886 were received on 12-MAR-22 10:20.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



CHAIN OF CUSTODY RECORD - ALS-446304805

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 3/10/2022 11:31:00 AM COC Number: ALS-446304803 | | | | | | Containers Filtered Preservatives | | SW Kit | Ra-226 Bottle | | | | | | | Number of Containers | Comments |
|--|-------|------|------|------------------|--------|--|---------------|--------|---------------|--|--|--|--|----|--|----------------------|----------|
| | | | | | | N | N | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Sample Code | DO | PH | TEMP | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | |
| -1 FB_SW_20220308 | | | | 03/08/2022 12:00 | SW | X | | | | | | | | 11 | | | |
| -2 SW02_SW_20220308 | 7.86 | 6.09 | 1.73 | 03/08/2022 10:00 | SW | X | | | | | | | | 11 | | | |
| -3 SW03_SW_20220308 | 4.2 | 7 | 0.28 | 03/08/2022 15:10 | SW | X | | | | | | | | 11 | | | |
| -4 SW06_SW_20220308 | | | | 03/08/2022 12:00 | SW | X | | | | | | | | 11 | | | |
| -5 SW10_SW_20220308 | 11.21 | 6.7 | 0.2 | 03/08/2022 11:45 | SW | X | | | | | | | | 11 | | | |
| -6 SW15_SW_20220308 | 4.9 | 7 | 0.55 | 03/08/2022 13:00 | SW | X | | | | | | | | 11 | | | |

| | | | | | | | | | |
|-------------|--|-----------------------|--|-----------------------------|--|------|--|-----------------------------------|--|
| Signature | | Data/Time | | Shipping Details | | ATTN | | Special Instructions: | |
| Shipped by | | 3/10/2022 11:31:00 AM | | Method of Shipment: Courier | | | | | |
| | | | | On Ice: yes / no | | | | | |
| | | | | Shipped: Air/Ground | | | | | |
| Received by | | AMI; 10:20am ; 3.6°C | | Lab Name: ALS Thunder Bay | | | | Email Invoice to: | |
| | | | | Lab Phone: | | | | rainyriver.accounts1@newgold.com | |
| | | | | | | | | Email Report to: | |
| | | | | | | | | rainyriver.labresults@newgold.com | |

CB



L2691886-COFC

CB
AM
Page 2 of 4

CHAIN OF CUSTODY RECORD - ALS-446304803

Project Name: Rainy River
Location: Chapple
Project Number:
Project Manager:
PO Number:
Project:
Turn Around Time (days): 10 Business Days
Shipping Company:
Shipping Date: 3/10/2022 11:31:00 AM
COC Number: ALS-446304803

| | | | | | | Containers | SW Kit | Re-226 Bottle | | | | | | | | | | Number of Containers | Comments |
|--|--|--|--|--|--|---------------|--------|---------------|--|--|--|--|--|--|--|--|--|----------------------|----------|
| | | | | | | Filtered | N | N | | | | | | | | | | | |
| | | | | | | Preservatives | | | | | | | | | | | | | |

| Sample Code | DO | PH | TEMP | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | | | |
|-------------------|------|------|-------|------------------|--------|------------|---------------|--|--|--|--|--|--|--|--|--|--|----|--|
| SW16_SW_20220308 | 11.7 | 7.92 | 0.8 | 03/08/2022 11:30 | SW | X | | | | | | | | | | | | 11 | |
| SW17_SW_20220308 | 12.1 | 7.09 | 0.3 | 03/08/2022 12:20 | SW | X | | | | | | | | | | | | 11 | |
| SW20_SW_20220308 | 9.45 | 6.53 | -0.03 | 03/08/2022 12:15 | SW | X | X | | | | | | | | | | | 12 | |
| SW21A_SW_20220308 | 0 | 7.8 | 0.05 | 03/08/2022 11:50 | SW | X | | | | | | | | | | | | 11 | |
| SW22A_SW_20220308 | 0 | 7.09 | -0.38 | 03/09/2022 09:10 | SW | X | X | | | | | | | | | | | 12 | |
| SW23_SW_20220308 | 13.6 | 6.93 | 0.5 | 03/08/2022 14:00 | SW | X | X | | | | | | | | | | | 12 | |
| SW24_SW_20220308 | 4.65 | 6.83 | 0.02 | 03/08/2022 14:20 | SW | X | X | | | | | | | | | | | 12 | |

-7
-8
-9
-10
-11
-12
-13

| | | | | | | | | |
|------------------|--|-----------------------|-----------------------------|--|-------------|--|-----------------------------------|--|
| Signature | | Date/Time | Shipping Details | | ATTN | | Special Instructions: | |
| Shipped by | | 3/10/2022 11:31:00 AM | Method of Shipment: Courier | | | | Email Invoice to: | |
| Received by | | | On Ice: yes / no | | | | rainyriver.accounts1@newgold.com | |
| | | | Shipped: Air/Ground | | | | Email Report to: | |
| | | | Lab Name: ALS Thunder Bay | | | | rainyriver.labresults@newgold.com | |
| | | | Lab Phone: | | | | | |



CHAIN OF CUSTODY RECORD - ALS-446304803

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 3/10/2022 11:31:00 AM COC Number: ALS-446304803 | | | | | | Containers SW Kit Ra-226 Bottle | | | | | | | | | Number of Containers | Comments |
|--|------|------|------|---------------------|--------|--|----------------|--|--|--|--|--|--|--|----------------------|-----------------|
| | | | | | | Filtered N N | | | | | | | | | | |
| | | | | | | Preservatives | | | | | | | | | | |
| | | | | | | NG-SW-P-TB RA226-MIMER-BE | | | | | | | | | | |
| Sample Code | DO | PH | TEMP | Date and Time | Matrix | NG-SW-P-TB | RA226-MIMER-BE | | | | | | | | | |
| SW25_SW_20220308 | 7.18 | 6.96 | 0.16 | 03/08/2022 14:00 | SW | X | | | | | | | | | 11 | |
| TB_SW_20220308 | | | | 03/10/2022 12:00 | SW | X | | | | | | | | | 11 | |

13
-10

Drinking Water (DW) Samples (client use)

Are samples taken from a Regulated DW System? Yes No

Are samples for human consumption / use? Yes No

Samples from a Regulated DW System require an Authorized DW COC form

Sample Receipt Details (ALS use only)

Cooling Method: None Ice Ice Packs Frozen Cooling Initiated

Submission Comments identified on Sample Receipt Notification: Yes No

Cooler Custody Seals Intact: Yes NA Sample Custody Seals Intact: Yes NA

Initial Cooler Temperatures °C **36** Final Cooler Temperatures °C

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|-----------------------|---|------|--|
| Shipped by | 3/10/2022 11:31:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | | | | |



L2691886-COFC

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AM
Page 4 of 4

CHAIN OF CUSTODY RECORD - ALS-44630480:

| | | | | | | |
|--|--|--|--|--|--|--|
| | | | | | | |
|--|--|--|--|--|--|--|

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|-----------------------|--|------|--|
| Shipped by | 3/10/2022 11:31:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground | | |
| Received by | | Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 08-APR-22
Report Date: 25-MAY-22 13:35 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2697806
Project P.O. #: 4500058071
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:

<original signed by>

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2697806-1 FB-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 09-APR-22 | R5759887 |
| Conductivity (EC) | 0.4 | <DL | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 12-APR-22 | |
| pH | 6.04 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | <0.10 | | 0.10 | NTU | | 08-APR-22 | R5759437 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 1.4 | <DL | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.028 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Chloride (Cl) | 0.24 | | 0.24 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.024 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | 0.005 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 0.25 | <DL | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762758 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 13-APR-22 | R5762791 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0004 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.00003 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0015 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 0.010 | <DL | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00014 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | <0.0005 | <W | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | <0.00001 | <W | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2697806-1 FB-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Magnesium (Mg)-Total | 0.0006 | <DL | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00010 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.000002 | <DL | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | <0.000005 | <W | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 0.060 | <DL | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 0.040 | <DL | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.000020 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.00004 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | <0.00005 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | <0.0005 | <W | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000008 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | <0.0002 | <W | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 11-APR-22 | R5761579 |
| Arsenic (As)-Dissolved | 0.0000020 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Barium (Ba)-Dissolved | <0.000005 | <W | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Boron (B)-Dissolved | 0.0005 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 11-APR-22 | R5761579 |
| Calcium (Ca)-Dissolved | 0.006 | <DL | 0.20 | mg/L | | 11-APR-22 | R5761579 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 11-APR-22 | R5761579 |
| Chromium (Cr)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 11-APR-22 | R5761579 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Iron (Fe)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 11-APR-22 | R5761579 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|----------|-----------|-----------|----------|
| L2697806-1 FB-SW-20220405 Sampled By: Client on 05-APR-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Magnesium (Mg)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 11-APR-22 | R5761579 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Silicon (Si)-Dissolved | 0.065 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Sodium (Na)-Dissolved | 0.045 | <DL | 0.10 | mg/L | | 11-APR-22 | R5761579 |
| Strontium (Sr)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 11-APR-22 | R5761579 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Tin (Sn)-Dissolved | 0.000015 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 11-APR-22 | R5761579 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 08-APR-22 | R5762400 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 11-APR-22 | 11-APR-22 | R5760636 |
| L2697806-2 SW02-SW-20220405 Sampled By: Client on 05-APR-22 @ 13:35 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 6.19 | | 0 | mg/L | | 10-APR-22 | R5759992 |
| pH, Client Supplied | 6.95 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | .19 | | 0 | Degree C | | 10-APR-22 | R5759992 |
| Physical Tests | | | | | | | |
| Color, True | 112 | | 2.0 | CU | | 09-APR-22 | R5759887 |
| Conductivity (EC) | 129 | | 1.0 | uS/cm | | 09-APR-22 | R5760198 |
| Hardness (as CaCO3) | 76.4 | | 0.51 | mg/L | | 19-APR-22 | |
| pH | 7.45 | | 0.10 | pH | | 09-APR-22 | R5760198 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 08-APR-22 | R5760022 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2697806-2 SW02-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 13:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Total Dissolved Solids | 118 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 4.46 | | 0.10 | NTU | | 08-APR-22 | R5759576 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 4.0 | | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 68.2 | | 2.0 | mg/L | | 11-APR-22 | R5761322 |
| Ammonia, Total (as N) | 0.076 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 14-APR-22 | |
| Chloride (Cl) | 0.99 | | 0.24 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.026 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.038 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.873 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | <0.015 | DLM | 0.015 | mg/L | 08-APR-22 | 12-APR-22 | R5760839 |
| Sulfate (SO4) | 1.95 | <T | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0002 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 20.2 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762758 |
| Total Organic Carbon | 21.9 | | 0.50 | mg/L | | 13-APR-22 | R5762791 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.305 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00047 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0111 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0020 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000002 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 18.3 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000315 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00060 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000150 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00102 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.391 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00019 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0020 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 7.41 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0218 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000195 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-2 SW02-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 13:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Nickel (Ni)-Total | 0.00088 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 0.81 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00182 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000115 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 4.96 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 1.25 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0312 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 0.6 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.00693 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000125 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00075 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0035 | <T | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000406 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.179 | | 0.0050 | mg/L | | 18-APR-22 | R5765518 |
| Antimony (Sb)-Dissolved | 0.000055 | <DL | 0.00060 | mg/L | | 18-APR-22 | R5765518 |
| Arsenic (As)-Dissolved | 0.000469 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Barium (Ba)-Dissolved | 0.0109 | | 0.010 | mg/L | | 18-APR-22 | R5765518 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Boron (B)-Dissolved | 0.0025 | <DL | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Cadmium (Cd)-Dissolved | 0.0000020 | <DL | 0.000017 | mg/L | | 18-APR-22 | R5765518 |
| Calcium (Ca)-Dissolved | 17.9 | | 0.20 | mg/L | | 18-APR-22 | R5765518 |
| Cesium (Cs)-Dissolved | 0.0000155 | | 0.000010 | mg/L | | 18-APR-22 | R5765518 |
| Chromium (Cr)-Dissolved | 0.00039 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Cobalt (Co)-Dissolved | 0.000096 | <DL | 0.00050 | mg/L | | 18-APR-22 | R5765518 |
| Copper (Cu)-Dissolved | 0.00112 | <T | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Iron (Fe)-Dissolved | 0.298 | | 0.020 | mg/L | | 18-APR-22 | R5765518 |
| Lead (Pb)-Dissolved | 0.00015 | <T | 0.000050 | mg/L | | 18-APR-22 | R5765518 |
| Lithium (Li)-Dissolved | 0.0020 | <DL | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Magnesium (Mg)-Dissolved | 7.71 | | 0.020 | mg/L | | 18-APR-22 | R5765518 |
| Manganese (Mn)-Dissolved | 0.0104 | | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2697806-2 SW02-SW-20220405 Sampled By: Client on 05-APR-22 @ 13:35 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Molybdenum (Mo)-Dissolved | 0.000210 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Nickel (Ni)-Dissolved | 0.00084 | <DL | 0.0020 | mg/L | | 18-APR-22 | R5765518 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Potassium (K)-Dissolved | 0.80 | | 0.50 | mg/L | | 18-APR-22 | R5765518 |
| Rubidium (Rb)-Dissolved | 0.00164 | | 0.00020 | mg/L | | 18-APR-22 | R5765518 |
| Selenium (Se)-Dissolved | 0.000130 | <T | 0.000050 | mg/L | | 18-APR-22 | R5765518 |
| Silicon (Si)-Dissolved | 4.79 | | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 18-APR-22 | R5765518 |
| Sodium (Na)-Dissolved | 1.28 | | 0.10 | mg/L | | 18-APR-22 | R5765518 |
| Strontium (Sr)-Dissolved | 0.0299 | | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Sulfur (S)-Dissolved | 0.6 | | 0.50 | mg/L | | 18-APR-22 | R5765518 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-APR-22 | R5765518 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 18-APR-22 | R5765518 |
| Tin (Sn)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Titanium (Ti)-Dissolved | 0.00386 | | 0.0020 | mg/L | | 18-APR-22 | R5765518 |
| Tungsten (W)-Dissolved | 0.000008 | <DL | 0.010 | mg/L | | 18-APR-22 | R5765518 |
| Uranium (U)-Dissolved | 0.000126 | <DL | 0.0050 | mg/L | | 18-APR-22 | R5765518 |
| Vanadium (V)-Dissolved | 0.00046 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Zinc (Zn)-Dissolved | 0.0050 | <T | 0.0030 | mg/L | | 18-APR-22 | R5765518 |
| Zirconium (Zr)-Dissolved | 0.000330 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-APR-22 | R5763242 |
| Chemical Oxygen Demand | 62 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 11-APR-22 | 11-APR-22 | R5760636 |
| L2697806-3 SW03-SW-20220405 Sampled By: Client on 05-APR-22 @ 12:20 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.73 | | 0 | mg/L | | 10-APR-22 | R5759992 |
| pH, Client Supplied | 6.92 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | .17 | | 0 | Degree C | | 10-APR-22 | R5759992 |
| Physical Tests | | | | | | | |
| Color, True | 72.5 | | 2.0 | CU | | 09-APR-22 | R5759887 |
| Conductivity (EC) | 236 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 106 | | 0.51 | mg/L | | 12-APR-22 | |
| pH | 7.55 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | 6.0 | | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 170 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 5.70 | | 0.10 | NTU | | 08-APR-22 | R5759437 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.6 | <DL | 2.0 | mg/L | | 09-APR-22 | R5760198 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2697806-3 SW03-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 12:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 94.0 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.030 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 14-APR-22 | |
| Chloride (Cl) | 12.6 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.041 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.104 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | 0.010 | <T | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.783 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | 0.0153 | | 0.0030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 7.40 | | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 15.1 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762758 |
| Total Organic Carbon | 14.7 | | 0.50 | mg/L | | 13-APR-22 | R5762791 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.325 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000065 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00055 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0175 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0060 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000005 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 25.4 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000315 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00070 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000220 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00132 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.406 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00017 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0034 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 10.5 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0474 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000600 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00124 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.035 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 2.73 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00269 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-3 SW03-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 12:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Selenium (Se)-Total | 0.000095 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 4.42 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 5.96 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0617 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 2.4 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.0109 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | 0.00001 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000544 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00120 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0045 | <T | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000534 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.259 | | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Antimony (Sb)-Dissolved | 0.000060 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761579 |
| Arsenic (As)-Dissolved | 0.000538 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Barium (Ba)-Dissolved | 0.0161 | | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Boron (B)-Dissolved | 0.0065 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Cadmium (Cd)-Dissolved | 0.0000030 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761579 |
| Calcium (Ca)-Dissolved | 25.1 | | 0.20 | mg/L | | 11-APR-22 | R5761579 |
| Cesium (Cs)-Dissolved | 0.0000195 | | 0.000010 | mg/L | | 11-APR-22 | R5761579 |
| Chromium (Cr)-Dissolved | 0.00040 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Cobalt (Co)-Dissolved | 0.000106 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761579 |
| Copper (Cu)-Dissolved | 0.00120 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Iron (Fe)-Dissolved | 0.285 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Lead (Pb)-Dissolved | 0.00010 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Lithium (Li)-Dissolved | 0.0036 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Magnesium (Mg)-Dissolved | 10.5 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Manganese (Mn)-Dissolved | 0.0151 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000630 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Nickel (Ni)-Dissolved | 0.00108 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Phosphorus (P)-Dissolved | 0.035 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Potassium (K)-Dissolved | 2.68 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-3 SW03-SW-20220405 Sampled By: Client on 05-APR-22 @ 12:20 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Rubidium (Rb)-Dissolved | 0.00243 | | 0.00020 | mg/L | | 11-APR-22 | R5761579 |
| Selenium (Se)-Dissolved | 0.000110 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Silicon (Si)-Dissolved | 4.38 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Sodium (Na)-Dissolved | 6.16 | | 0.10 | mg/L | | 11-APR-22 | R5761579 |
| Strontium (Sr)-Dissolved | 0.0592 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Sulfur (S)-Dissolved | 2.4 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 11-APR-22 | R5761579 |
| Thorium (Th)-Dissolved | 0.00005 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Titanium (Ti)-Dissolved | 0.0112 | | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Tungsten (W)-Dissolved | 0.000014 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Uranium (U)-Dissolved | 0.000546 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Vanadium (V)-Dissolved | 0.00102 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Zinc (Zn)-Dissolved | 0.0020 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761579 |
| Zirconium (Zr)-Dissolved | 0.000594 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 08-APR-22 | R5762400 |
| Chemical Oxygen Demand | 44 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 11-APR-22 | 11-APR-22 | R5760636 |
| L2697806-4 SW06-SW-20220405 Sampled By: Client on 05-APR-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 81.7 | | 2.0 | CU | | 09-APR-22 | R5759887 |
| Conductivity (EC) | 202 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 91.9 | | 0.51 | mg/L | | 12-APR-22 | |
| pH | 7.62 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | 10.0 | | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 140 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 15.4 | | 0.10 | NTU | | 08-APR-22 | R5759437 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.2 | <DL | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 84.6 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.176 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Chloride (Cl) | 6.78 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.063 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.502 | | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | 0.024 | <T | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 1.12 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | 0.163 | | 0.030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-4 SW06-SW-20220405 Sampled By: Client on 05-APR-22 @ 12:00 Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Sulfate (SO4) | 7.65 | | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0007 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 13.6 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762758 |
| Total Organic Carbon | 14.2 | | 0.50 | mg/L | | 14-APR-22 | R5764398 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.627 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000060 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00113 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0211 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | 0.0000010 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0080 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000011 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 21.2 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000735 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00128 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000365 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00264 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.650 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00029 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0038 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 9.90 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0434 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000960 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00220 | <T | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.275 | | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 5.09 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00354 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000165 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 5.35 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 3.02 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0462 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 2.4 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00013 | | 0.00010 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-4 SW06-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tin (Sn)-Total | 0.00096 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.0228 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | 0.00002 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000748 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00265 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0040 | <T | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.00108 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.302 | | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Antimony (Sb)-Dissolved | 0.000060 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761579 |
| Arsenic (As)-Dissolved | 0.000960 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Barium (Ba)-Dissolved | 0.0182 | | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Boron (B)-Dissolved | 0.0080 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Cadmium (Cd)-Dissolved | 0.0000070 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761579 |
| Calcium (Ca)-Dissolved | 21.1 | | 0.20 | mg/L | | 11-APR-22 | R5761579 |
| Cesium (Cs)-Dissolved | 0.0000245 | | 0.000010 | mg/L | | 11-APR-22 | R5761579 |
| Chromium (Cr)-Dissolved | 0.00048 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Cobalt (Co)-Dissolved | 0.000126 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761579 |
| Copper (Cu)-Dissolved | 0.00208 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Iron (Fe)-Dissolved | 0.241 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Lead (Pb)-Dissolved | 0.00013 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Lithium (Li)-Dissolved | 0.0038 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Magnesium (Mg)-Dissolved | 9.55 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Manganese (Mn)-Dissolved | 0.0131 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000910 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Nickel (Ni)-Dissolved | 0.00154 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Phosphorus (P)-Dissolved | 0.205 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Potassium (K)-Dissolved | 4.91 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Rubidium (Rb)-Dissolved | 0.00290 | | 0.00020 | mg/L | | 11-APR-22 | R5761579 |
| Selenium (Se)-Dissolved | 0.000210 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Silicon (Si)-Dissolved | 4.63 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Sodium (Na)-Dissolved | 3.07 | | 0.10 | mg/L | | 11-APR-22 | R5761579 |
| Strontium (Sr)-Dissolved | 0.0457 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Sulfur (S)-Dissolved | 2.4 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761579 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|---------|----------|-----------|-----------|----------|
| L2697806-4 SW06-SW-20220405 Sampled By: Client on 05-APR-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thorium (Th)-Dissolved | 0.00009 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Tin (Sn)-Dissolved | 0.000140 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Titanium (Ti)-Dissolved | 0.0155 | | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Tungsten (W)-Dissolved | 0.000012 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Uranium (U)-Dissolved | 0.000723 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Vanadium (V)-Dissolved | 0.00172 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Zinc (Zn)-Dissolved | 0.0020 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761579 |
| Zirconium (Zr)-Dissolved | 0.000834 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.6 | | 2.0 | mg/L | | 09-APR-22 | R5763242 |
| Chemical Oxygen Demand | 42 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | 1.2 | | 1.0 | mg/L | 11-APR-22 | 11-APR-22 | R5761178 |
| L2697806-5 SW10-SW-20220405 Sampled By: Client on 05-APR-22 @ 10:40 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 12.51 | | 0 | mg/L | | 10-APR-22 | R5759992 |
| pH, Client Supplied | 7.37 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | .37 | | 0 | Degree C | | 10-APR-22 | R5759992 |
| Physical Tests | | | | | | | |
| Color, True | 85.6 | | 2.0 | CU | | 09-APR-22 | R5759887 |
| Conductivity (EC) | 206 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 88.7 | | 0.51 | mg/L | | 12-APR-22 | |
| pH | 7.55 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | 9.5 | | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 142 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 11.3 | | 0.10 | NTU | | 08-APR-22 | R5759437 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.8 | <DL | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 81.8 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.078 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 14-APR-22 | |
| Chloride (Cl) | 12.6 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.037 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.138 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | 0.003 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.869 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | 0.0471 | | 0.0030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 4.95 | <T | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-5 SW10-SW-20220405 Sampled By: Client on 05-APR-22 @ 10:40 Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 15.6 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762758 |
| Total Organic Carbon | 15.9 | | 0.50 | mg/L | | 14-APR-22 | R5764398 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.606 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000055 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00061 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0181 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | 0.0000010 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0065 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000014 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 21.0 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000695 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00116 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000340 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00166 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.657 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00029 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0036 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 9.61 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0444 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000670 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00158 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.080 | | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 3.08 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00370 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000160 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 5.05 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 6.43 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0538 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 1.6 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00009 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.0196 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | 0.00001 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-5 SW10-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 10:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Uranium (U)-Total | 0.000491 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00190 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0035 | <T | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000642 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.408 | | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Antimony (Sb)-Dissolved | 0.000045 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761579 |
| Arsenic (As)-Dissolved | 0.000558 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Barium (Ba)-Dissolved | 0.0160 | | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Bismuth (Bi)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Boron (B)-Dissolved | 0.0070 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Cadmium (Cd)-Dissolved | 0.0000060 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761579 |
| Calcium (Ca)-Dissolved | 20.4 | | 0.20 | mg/L | | 11-APR-22 | R5761579 |
| Cesium (Cs)-Dissolved | 0.0000325 | | 0.000010 | mg/L | | 11-APR-22 | R5761579 |
| Chromium (Cr)-Dissolved | 0.00061 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Cobalt (Co)-Dissolved | 0.000116 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761579 |
| Copper (Cu)-Dissolved | 0.00134 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Iron (Fe)-Dissolved | 0.343 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Lead (Pb)-Dissolved | 0.00013 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Lithium (Li)-Dissolved | 0.0038 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Magnesium (Mg)-Dissolved | 9.16 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Manganese (Mn)-Dissolved | 0.00582 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000654 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Nickel (Ni)-Dissolved | 0.00122 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Phosphorus (P)-Dissolved | 0.065 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Potassium (K)-Dissolved | 2.98 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Rubidium (Rb)-Dissolved | 0.00308 | | 0.00020 | mg/L | | 11-APR-22 | R5761579 |
| Selenium (Se)-Dissolved | 0.000130 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Silicon (Si)-Dissolved | 4.63 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Sodium (Na)-Dissolved | 6.50 | | 0.10 | mg/L | | 11-APR-22 | R5761579 |
| Strontium (Sr)-Dissolved | 0.0528 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Sulfur (S)-Dissolved | 1.8 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Tellurium (Te)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761579 |
| Thorium (Th)-Dissolved | 0.00010 | | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Tin (Sn)-Dissolved | 0.000005 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Titanium (Ti)-Dissolved | 0.0164 | | 0.0020 | mg/L | | 11-APR-22 | R5761579 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|--------|----------|-----------|-----------|----------|
| L2697806-5 SW10-SW-20220405 Sampled By: Client on 05-APR-22 @ 10:40 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tungsten (W)-Dissolved | 0.000010 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Uranium (U)-Dissolved | 0.000459 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Vanadium (V)-Dissolved | 0.00142 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Zinc (Zn)-Dissolved | 0.0024 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761579 |
| Zirconium (Zr)-Dissolved | 0.000834 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 08-APR-22 | R5762400 |
| Chemical Oxygen Demand | 46 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 11-APR-22 | 11-APR-22 | R5761178 |
| L2697806-6 SW15-SW-20220405 Sampled By: Client on 05-APR-22 @ 10:20 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 10.91 | | 0 | mg/L | | 10-APR-22 | R5759992 |
| pH, Client Supplied | 6.75 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | 1.07 | | 0 | Degree C | | 10-APR-22 | R5759992 |
| Physical Tests | | | | | | | |
| Color, True | 62.5 | | 2.0 | CU | | 09-APR-22 | R5759887 |
| Conductivity (EC) | 163 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 69.9 | | 0.51 | mg/L | | 12-APR-22 | |
| pH | 7.64 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | 9.5 | | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 118 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 10.2 | | 0.10 | NTU | | 09-APR-22 | R5759904 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.2 | <DL | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 68.8 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.178 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 14-APR-22 | |
| Chloride (Cl) | 5.50 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.101 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.612 | | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | 0.025 | <T | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.913 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | 0.350 | | 0.030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 3.75 | <T | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 12-APR-22 | R5761530 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 12-APR-22 | R5761530 |
| Cyanide, Free | 0.0008 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 14.3 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762739 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2697806-6 SW15-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 10:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Total Organic Carbon | 13.2 | | 0.50 | mg/L | | 14-APR-22 | R5764398 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.439 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000060 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00180 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0189 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0070 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000007 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 15.9 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000470 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00120 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000285 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00416 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.411 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00028 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0038 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 8.78 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0130 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000800 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00270 | <T | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.385 | | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 4.83 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00208 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000240 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 5.48 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 2.39 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0355 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 0.8 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00012 | | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.0180 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | 0.00003 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000389 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00300 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0055 | <T | 0.0030 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-6 SW15-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 10:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Zirconium (Zr)-Total | 0.000958 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.264 | | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Antimony (Sb)-Dissolved | 0.000060 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761579 |
| Arsenic (As)-Dissolved | 0.00173 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Barium (Ba)-Dissolved | 0.0169 | | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Boron (B)-Dissolved | 0.0070 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Cadmium (Cd)-Dissolved | 0.0000020 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761579 |
| Calcium (Ca)-Dissolved | 14.6 | | 0.20 | mg/L | | 11-APR-22 | R5761579 |
| Cesium (Cs)-Dissolved | 0.0000215 | | 0.000010 | mg/L | | 11-APR-22 | R5761579 |
| Chromium (Cr)-Dissolved | 0.00050 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Cobalt (Co)-Dissolved | 0.000086 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761579 |
| Copper (Cu)-Dissolved | 0.00366 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Iron (Fe)-Dissolved | 0.154 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Lead (Pb)-Dissolved | 0.00010 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Lithium (Li)-Dissolved | 0.0040 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Magnesium (Mg)-Dissolved | 8.16 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Manganese (Mn)-Dissolved | 0.00196 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000848 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Nickel (Ni)-Dissolved | 0.00214 | <T | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Phosphorus (P)-Dissolved | 0.395 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Potassium (K)-Dissolved | 4.79 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Rubidium (Rb)-Dissolved | 0.00162 | | 0.00020 | mg/L | | 11-APR-22 | R5761579 |
| Selenium (Se)-Dissolved | 0.000210 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Silicon (Si)-Dissolved | 5.36 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Sodium (Na)-Dissolved | 2.36 | | 0.10 | mg/L | | 11-APR-22 | R5761579 |
| Strontium (Sr)-Dissolved | 0.0333 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Sulfur (S)-Dissolved | 0.8 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761579 |
| Thorium (Th)-Dissolved | 0.00009 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Titanium (Ti)-Dissolved | 0.0141 | | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Tungsten (W)-Dissolved | 0.000022 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Uranium (U)-Dissolved | 0.000344 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Vanadium (V)-Dissolved | 0.00250 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|--------|----------|-----------|-----------|----------|
| L2697806-6 SW15-SW-20220405 Sampled By: Client on 05-APR-22 @ 10:20 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Zinc (Zn)-Dissolved | 0.0018 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761579 |
| Zirconium (Zr)-Dissolved | 0.000914 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.6 | | 2.0 | mg/L | | 08-APR-22 | R5762400 |
| Chemical Oxygen Demand | 41 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 11-APR-22 | 11-APR-22 | R5761178 |
| L2697806-7 SW16-SW-20220405 Sampled By: Client on 05-APR-22 @ 08:40 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 16.63 | | 0 | mg/L | | 10-APR-22 | R5759992 |
| pH, Client Supplied | 6.72 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | 1.77 | | 0 | Degree C | | 10-APR-22 | R5759992 |
| Physical Tests | | | | | | | |
| Color, True | 37.4 | | 2.0 | CU | | 09-APR-22 | R5759887 |
| Conductivity (EC) | 98.4 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 40.5 | | 0.51 | mg/L | | 12-APR-22 | |
| pH | 7.42 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | 4.5 | | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 84 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 3.50 | | 0.10 | NTU | | 09-APR-22 | R5759904 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.4 | <DL | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 36.4 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.072 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 14-APR-22 | |
| Chloride (Cl) | 3.98 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.037 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.086 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.500 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | 0.0319 | | 0.0030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 5.10 | | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 11.4 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762739 |
| Total Organic Carbon | 10.5 | | 0.50 | mg/L | | 14-APR-22 | R5764398 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.147 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2697806-7 SW16-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 08:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00046 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0112 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0025 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000004 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 10.5 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000195 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00048 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000135 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00114 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.206 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00010 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0014 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 3.82 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0170 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000295 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00084 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.045 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 1.67 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00252 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000100 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 2.47 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 3.70 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0280 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 1.4 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.00519 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000200 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00070 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000252 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2697806-7 SW16-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 08:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0636 | | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761579 |
| Arsenic (As)-Dissolved | 0.000403 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Barium (Ba)-Dissolved | 0.0102 | | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Boron (B)-Dissolved | 0.0025 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 11-APR-22 | R5761579 |
| Calcium (Ca)-Dissolved | 10.1 | | 0.20 | mg/L | | 11-APR-22 | R5761579 |
| Cesium (Cs)-Dissolved | 0.0000060 | <DL | 0.000010 | mg/L | | 11-APR-22 | R5761579 |
| Chromium (Cr)-Dissolved | 0.00024 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Cobalt (Co)-Dissolved | 0.000036 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761579 |
| Copper (Cu)-Dissolved | 0.00098 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Iron (Fe)-Dissolved | 0.0880 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Lithium (Li)-Dissolved | 0.0016 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Magnesium (Mg)-Dissolved | 3.69 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Manganese (Mn)-Dissolved | 0.00312 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000302 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Nickel (Ni)-Dissolved | 0.00072 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Phosphorus (P)-Dissolved | 0.040 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Potassium (K)-Dissolved | 1.67 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Rubidium (Rb)-Dissolved | 0.00233 | | 0.00020 | mg/L | | 11-APR-22 | R5761579 |
| Selenium (Se)-Dissolved | 0.000090 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Silicon (Si)-Dissolved | 2.35 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Sodium (Na)-Dissolved | 3.68 | | 0.10 | mg/L | | 11-APR-22 | R5761579 |
| Strontium (Sr)-Dissolved | 0.0276 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Sulfur (S)-Dissolved | 1.6 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 11-APR-22 | R5761579 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Titanium (Ti)-Dissolved | 0.00266 | | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Uranium (U)-Dissolved | 0.000181 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Vanadium (V)-Dissolved | 0.00044 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Zinc (Zn)-Dissolved | 0.0010 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761579 |
| Zirconium (Zr)-Dissolved | 0.000212 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Aggregate Organics | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|---------|----------|-----------|-----------|----------|
| L2697806-7 SW16-SW-20220405 Sampled By: Client on 05-APR-22 @ 08:40 Matrix: SW | | | | | | | |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 08-APR-22 | R5762400 |
| Chemical Oxygen Demand | 32 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 11-APR-22 | 11-APR-22 | R5761178 |
| L2697806-8 SW17-SW-20220405 Sampled By: Client on 05-APR-22 @ 09:45 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 10.07 | | 0 | mg/L | | 10-APR-22 | R5759992 |
| pH, Client Supplied | 6.57 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | 1.75 | | 0 | Degree C | | 10-APR-22 | R5759992 |
| Physical Tests | | | | | | | |
| Color, True | 38.5 | | 2.0 | CU | | 09-APR-22 | R5759887 |
| Conductivity (EC) | 135 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 60.6 | | 0.51 | mg/L | | 12-APR-22 | |
| pH | 7.45 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | 7.0 | | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 102 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 3.66 | | 0.10 | NTU | | 09-APR-22 | R5759904 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.8 | <DL | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 56.6 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.092 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 18-APR-22 | |
| Chloride (Cl) | 4.39 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.036 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.162 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | 0.004 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.483 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | 0.0191 | | 0.0030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 4.70 | <T | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0011 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 10.4 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762739 |
| Total Organic Carbon | 10.1 | | 0.50 | mg/L | | 14-APR-22 | R5764398 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.203 | | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00053 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0150 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2697806-8 SW17-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 09:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0020 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000002 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 16.1 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000185 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00054 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000230 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00124 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.268 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00013 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0016 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 5.21 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0916 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000335 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00104 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.040 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 1.81 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00212 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000085 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 2.47 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 3.34 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0331 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 1.4 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00008 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.00644 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | 0.00001 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000352 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00085 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0020 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000282 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.0756 | | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Antimony (Sb)-Dissolved | 0.000045 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761579 |
| Arsenic (As)-Dissolved | 0.000486 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2697806-8 SW17-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 09:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Barium (Ba)-Dissolved | 0.0136 | | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Boron (B)-Dissolved | 0.0025 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Cadmium (Cd)-Dissolved | 0.0000020 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761579 |
| Calcium (Ca)-Dissolved | 15.8 | | 0.20 | mg/L | | 11-APR-22 | R5761579 |
| Cesium (Cs)-Dissolved | 0.0000060 | <DL | 0.000010 | mg/L | | 11-APR-22 | R5761579 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Cobalt (Co)-Dissolved | 0.000082 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761579 |
| Copper (Cu)-Dissolved | 0.00102 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Iron (Fe)-Dissolved | 0.136 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Lithium (Li)-Dissolved | 0.0018 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Magnesium (Mg)-Dissolved | 5.13 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Manganese (Mn)-Dissolved | 0.0270 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000326 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Nickel (Ni)-Dissolved | 0.00082 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Phosphorus (P)-Dissolved | 0.025 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Potassium (K)-Dissolved | 1.80 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Rubidium (Rb)-Dissolved | 0.00191 | | 0.00020 | mg/L | | 11-APR-22 | R5761579 |
| Selenium (Se)-Dissolved | 0.000100 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Silicon (Si)-Dissolved | 2.36 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Sodium (Na)-Dissolved | 3.39 | | 0.10 | mg/L | | 11-APR-22 | R5761579 |
| Strontium (Sr)-Dissolved | 0.0316 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Sulfur (S)-Dissolved | 1.6 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 11-APR-22 | R5761579 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Tin (Sn)-Dissolved | 0.000055 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Titanium (Ti)-Dissolved | 0.00334 | | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Tungsten (W)-Dissolved | 0.000006 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Uranium (U)-Dissolved | 0.000318 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Vanadium (V)-Dissolved | 0.00054 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Zinc (Zn)-Dissolved | 0.0014 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761579 |
| Zirconium (Zr)-Dissolved | 0.000240 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 08-APR-22 | R5762400 |
| Chemical Oxygen Demand | 28 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 11-APR-22 | 11-APR-22 | R5761178 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2697806-9 SW20-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 11:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 9.37 | | 0 | mg/L | | 10-APR-22 | R5759992 |
| pH, Client Supplied | 7.21 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | .02 | | 0 | Degree C | | 10-APR-22 | R5759992 |
| Physical Tests | | | | | | | |
| Color, True | 93.6 | | 2.0 | CU | | 09-APR-22 | R5759887 |
| Conductivity (EC) | 250 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 96.4 | | 0.51 | mg/L | | 12-APR-22 | |
| pH | 7.33 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | 2.0 | <DL | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 176 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 8.71 | | 0.10 | NTU | | 08-APR-22 | R5759437 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.8 | | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 78.4 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.024 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 18-APR-22 | |
| Chloride (Cl) | 24.6 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.032 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.118 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.805 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | 0.0083 | | 0.0030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 6.45 | | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0007 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 17.9 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762758 |
| Total Organic Carbon | 18.3 | | 0.50 | mg/L | | 14-APR-22 | R5764398 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.444 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000055 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00051 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0191 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | 0.0000159 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0085 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000009 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 23.0 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000485 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00070 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-9 SW20-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 11:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Cobalt (Co)-Total | 0.000220 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00124 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.487 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00019 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0036 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 10.2 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0420 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000415 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00132 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.020 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 2.20 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00273 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000175 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 5.25 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 12.8 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0591 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 2.2 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00009 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.0137 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | 0.00002 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000393 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00140 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0035 | <T | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000644 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.488 | | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Antimony (Sb)-Dissolved | 0.000050 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761579 |
| Arsenic (As)-Dissolved | 0.000468 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Barium (Ba)-Dissolved | 0.0175 | | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Boron (B)-Dissolved | 0.0075 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Cadmium (Cd)-Dissolved | 0.0000070 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761579 |
| Calcium (Ca)-Dissolved | 22.0 | | 0.20 | mg/L | | 11-APR-22 | R5761579 |
| Cesium (Cs)-Dissolved | 0.0000375 | | 0.000010 | mg/L | | 11-APR-22 | R5761579 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-9 SW20-SW-20220405 Sampled By: Client on 05-APR-22 @ 11:15 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Chromium (Cr)-Dissolved | 0.00071 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Cobalt (Co)-Dissolved | 0.000134 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761579 |
| Copper (Cu)-Dissolved | 0.00118 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Iron (Fe)-Dissolved | 0.443 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Lead (Pb)-Dissolved | 0.00014 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Lithium (Li)-Dissolved | 0.0040 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Magnesium (Mg)-Dissolved | 10.0 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Manganese (Mn)-Dissolved | 0.0128 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000382 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Nickel (Ni)-Dissolved | 0.00122 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Potassium (K)-Dissolved | 2.22 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Rubidium (Rb)-Dissolved | 0.00277 | | 0.00020 | mg/L | | 11-APR-22 | R5761579 |
| Selenium (Se)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Silicon (Si)-Dissolved | 5.53 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Silver (Ag)-Dissolved | 0.0000060 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Sodium (Na)-Dissolved | 12.9 | | 0.10 | mg/L | | 11-APR-22 | R5761579 |
| Strontium (Sr)-Dissolved | 0.0581 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Sulfur (S)-Dissolved | 2.2 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Thallium (Tl)-Dissolved | 0.000004 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761579 |
| Thorium (Th)-Dissolved | 0.00010 | | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Tin (Sn)-Dissolved | 0.000005 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Titanium (Ti)-Dissolved | 0.0178 | | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Tungsten (W)-Dissolved | 0.000010 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Uranium (U)-Dissolved | 0.000371 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Vanadium (V)-Dissolved | 0.00144 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Zinc (Zn)-Dissolved | 0.0036 | <T | 0.0030 | mg/L | | 11-APR-22 | R5761579 |
| Zirconium (Zr)-Dissolved | 0.000888 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 08-APR-22 | R5762400 |
| Chemical Oxygen Demand | 50 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 11-APR-22 | 11-APR-22 | R5761178 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.010 | | 0.010 | Bq/L | | 29-APR-22 | R5770477 |
| Report Remarks : LPMB: Lab-Preserved for Total Metals. Sample received with pH > 2 and preserved at the lab. Total Metals results may be biased low. | | | | | | | |
| L2697806-10 SW22A-SW-20220405 Sampled By: Client on 05-APR-22 @ 12:55 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 10.9 | | 0 | mg/L | | 10-APR-22 | R5759992 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|----------|-----------|-----------|----------|
| L2697806-10 SW22A-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 12:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.19 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | 0 | | 0 | Degree C | | 10-APR-22 | R5759992 |
| Physical Tests | | | | | | | |
| Color, True | 74.9 | | 2.0 | CU | | 09-APR-22 | R5759887 |
| Conductivity (EC) | 233 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 105 | | 0.51 | mg/L | | 12-APR-22 | |
| pH | 7.55 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 164 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 6.45 | | 0.10 | NTU | | 08-APR-22 | R5759437 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.2 | | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 94.8 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.020 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 18-APR-22 | |
| Chloride (Cl) | 11.9 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.039 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.090 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.866 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | 0.0167 | | 0.0030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 7.05 | | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0002 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 15.4 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762758 |
| Total Organic Carbon | 15.1 | | 0.50 | mg/L | | 14-APR-22 | R5764398 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.401 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000060 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00055 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0176 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0065 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000006 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 25.7 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000465 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00074 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000240 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-10 SW22A-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 12:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Copper (Cu)-Total | 0.00144 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.475 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00018 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0034 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 10.6 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0436 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000620 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00124 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 2.71 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00295 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000115 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 4.71 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 5.88 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0614 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 2.2 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00009 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.0135 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | 0.00002 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000571 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00130 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0040 | <T | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000540 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.318 | | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Antimony (Sb)-Dissolved | 0.000060 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761579 |
| Arsenic (As)-Dissolved | 0.000522 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Barium (Ba)-Dissolved | 0.0165 | | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Boron (B)-Dissolved | 0.0065 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Cadmium (Cd)-Dissolved | 0.0000020 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761579 |
| Calcium (Ca)-Dissolved | 24.8 | | 0.20 | mg/L | | 11-APR-22 | R5761579 |
| Cesium (Cs)-Dissolved | 0.0000265 | | 0.000010 | mg/L | | 11-APR-22 | R5761579 |
| Chromium (Cr)-Dissolved | 0.00054 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2697806-10 SW22A-SW-20220405 Sampled By: Client on 05-APR-22 @ 12:55 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Cobalt (Co)-Dissolved | 0.000116 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761579 |
| Copper (Cu)-Dissolved | 0.00128 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Iron (Fe)-Dissolved | 0.302 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Lead (Pb)-Dissolved | 0.00011 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Lithium (Li)-Dissolved | 0.0032 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Magnesium (Mg)-Dissolved | 10.5 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Manganese (Mn)-Dissolved | 0.00938 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000624 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Nickel (Ni)-Dissolved | 0.00108 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Potassium (K)-Dissolved | 2.73 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Rubidium (Rb)-Dissolved | 0.00262 | | 0.00020 | mg/L | | 11-APR-22 | R5761579 |
| Selenium (Se)-Dissolved | 0.000130 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Silicon (Si)-Dissolved | 4.69 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Sodium (Na)-Dissolved | 5.96 | | 0.10 | mg/L | | 11-APR-22 | R5761579 |
| Strontium (Sr)-Dissolved | 0.0600 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Sulfur (S)-Dissolved | 2.2 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761579 |
| Thorium (Th)-Dissolved | 0.00007 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Titanium (Ti)-Dissolved | 0.0125 | | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Tungsten (W)-Dissolved | 0.000018 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Uranium (U)-Dissolved | 0.000540 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Vanadium (V)-Dissolved | 0.00112 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Zinc (Zn)-Dissolved | 0.0022 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761579 |
| Zirconium (Zr)-Dissolved | 0.000654 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-APR-22 | R5763242 |
| Chemical Oxygen Demand | 43 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 11-APR-22 | 11-APR-22 | R5761178 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.010 | | 0.010 | Bq/L | | 29-APR-22 | R5770477 |
| L2697806-11 SW23-SW-20220405 Sampled By: Client on 05-APR-22 @ 11:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 12.14 | | 0 | mg/L | | 10-APR-22 | R5759992 |
| pH, Client Supplied | 6.68 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | .01 | | 0 | Degree C | | 10-APR-22 | R5759992 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-11 SW23-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 11:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 79.1 | | 2.0 | CU | | 09-APR-22 | R5759887 |
| Conductivity (EC) | 234 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 110 | | 0.51 | mg/L | | 12-APR-22 | |
| pH | 7.87 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 156 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 6.24 | | 0.10 | NTU | | 08-APR-22 | R5759437 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.4 | <DL | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 99.2 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.032 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 18-APR-22 | |
| Chloride (Cl) | 10.4 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.041 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.108 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.875 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | 0.0132 | | 0.0030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 7.45 | | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0007 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 16.3 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762758 |
| Total Organic Carbon | 16.2 | | 0.50 | mg/L | | 14-APR-22 | R5764398 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.299 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000070 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00059 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0177 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | 0.0000020 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0065 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000006 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 26.4 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000350 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00062 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000260 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00130 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.476 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-11 SW23-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 11:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Lead (Pb)-Total | 0.00016 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0032 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 11.2 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0650 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000585 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00132 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.035 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 2.65 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00276 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000135 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 4.57 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 5.46 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0606 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 2.6 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00010 | | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00009 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.00994 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | 0.00002 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000586 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00105 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0045 | <T | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000504 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.215 | | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Antimony (Sb)-Dissolved | 0.000060 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761579 |
| Arsenic (As)-Dissolved | 0.000566 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Barium (Ba)-Dissolved | 0.0158 | | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Boron (B)-Dissolved | 0.0060 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761579 |
| Calcium (Ca)-Dissolved | 26.0 | | 0.20 | mg/L | | 11-APR-22 | R5761579 |
| Cesium (Cs)-Dissolved | 0.0000170 | | 0.000010 | mg/L | | 11-APR-22 | R5761579 |
| Chromium (Cr)-Dissolved | 0.00042 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Cobalt (Co)-Dissolved | 0.000124 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761579 |
| Copper (Cu)-Dissolved | 0.00112 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2697806-11 SW23-SW-20220405 Sampled By: Client on 05-APR-22 @ 11:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Iron (Fe)-Dissolved | 0.310 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Lead (Pb)-Dissolved | 0.00009 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Lithium (Li)-Dissolved | 0.0036 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Magnesium (Mg)-Dissolved | 10.9 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Manganese (Mn)-Dissolved | 0.0248 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000576 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Nickel (Ni)-Dissolved | 0.00110 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Phosphorus (P)-Dissolved | 0.030 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Potassium (K)-Dissolved | 2.61 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Rubidium (Rb)-Dissolved | 0.00248 | | 0.00020 | mg/L | | 11-APR-22 | R5761579 |
| Selenium (Se)-Dissolved | 0.000140 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Silicon (Si)-Dissolved | 4.62 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Sodium (Na)-Dissolved | 5.38 | | 0.10 | mg/L | | 11-APR-22 | R5761579 |
| Strontium (Sr)-Dissolved | 0.0587 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Sulfur (S)-Dissolved | 2.6 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.000030 | mg/L | | 11-APR-22 | R5761579 |
| Thorium (Th)-Dissolved | 0.00008 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Tin (Sn)-Dissolved | 0.000005 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Titanium (Ti)-Dissolved | 0.00930 | | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Tungsten (W)-Dissolved | 0.000014 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Uranium (U)-Dissolved | 0.000565 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Vanadium (V)-Dissolved | 0.00096 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Zinc (Zn)-Dissolved | 0.0014 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761579 |
| Zirconium (Zr)-Dissolved | 0.000624 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 08-APR-22 | R5762400 |
| Chemical Oxygen Demand | 43 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 11-APR-22 | 11-APR-22 | R5761178 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.010 | | 0.010 | Bq/L | | 29-APR-22 | R5770477 |
| L2697806-12 SW24-SW-20220405 Sampled By: Client on 05-APR-22 @ 11:20 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 10.56 | | 0 | mg/L | | 10-APR-22 | R5759992 |
| pH, Client Supplied | 6.69 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | .07 | | 0 | Degree C | | 10-APR-22 | R5759992 |
| Physical Tests | | | | | | | |
| Color, True | 79.3 | | 2.0 | CU | | 09-APR-22 | R5759887 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-12 SW24-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 11:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Conductivity (EC) | 234 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 110 | | 0.51 | mg/L | | 12-APR-22 | |
| pH | 7.90 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 196 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 6.23 | | 0.10 | NTU | | 08-APR-22 | R5759437 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.2 | <DL | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 95.2 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.034 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 18-APR-22 | |
| Chloride (Cl) | 10.3 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.040 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.110 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.848 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | 0.0133 | | 0.0030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 7.50 | | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0007 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 16.3 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762758 |
| Total Organic Carbon | 16.3 | | 0.50 | mg/L | | 14-APR-22 | R5764398 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.353 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000065 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00062 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0177 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | 0.0000020 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0065 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000002 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 26.1 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000400 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00068 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000260 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00134 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.521 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00017 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0034 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-12 SW24-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 11:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Magnesium (Mg)-Total | 11.4 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0656 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000635 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00130 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.035 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 2.67 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00280 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000145 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 4.93 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 5.60 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0622 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 2.4 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00007 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.0124 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | 0.00001 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000591 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00120 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0025 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000560 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.214 | | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Antimony (Sb)-Dissolved | 0.000055 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761579 |
| Arsenic (As)-Dissolved | 0.000574 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Barium (Ba)-Dissolved | 0.0158 | | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Boron (B)-Dissolved | 0.0060 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Cadmium (Cd)-Dissolved | 0.0000040 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761579 |
| Calcium (Ca)-Dissolved | 26.0 | | 0.20 | mg/L | | 11-APR-22 | R5761579 |
| Cesium (Cs)-Dissolved | 0.0000160 | | 0.000010 | mg/L | | 11-APR-22 | R5761579 |
| Chromium (Cr)-Dissolved | 0.00035 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Cobalt (Co)-Dissolved | 0.000120 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761579 |
| Copper (Cu)-Dissolved | 0.00110 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Iron (Fe)-Dissolved | 0.316 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Lead (Pb)-Dissolved | 0.00009 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2697806-12 SW24-SW-20220405 Sampled By: Client on 05-APR-22 @ 11:20 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lithium (Li)-Dissolved | 0.0036 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Magnesium (Mg)-Dissolved | 11.0 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Manganese (Mn)-Dissolved | 0.0257 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000546 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Nickel (Ni)-Dissolved | 0.00112 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Potassium (K)-Dissolved | 2.61 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Rubidium (Rb)-Dissolved | 0.00244 | | 0.00020 | mg/L | | 11-APR-22 | R5761579 |
| Selenium (Se)-Dissolved | 0.000120 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Silicon (Si)-Dissolved | 4.59 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Sodium (Na)-Dissolved | 5.46 | | 0.10 | mg/L | | 11-APR-22 | R5761579 |
| Strontium (Sr)-Dissolved | 0.0583 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Sulfur (S)-Dissolved | 2.6 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 11-APR-22 | R5761579 |
| Thorium (Th)-Dissolved | 0.00005 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Titanium (Ti)-Dissolved | 0.00942 | | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Tungsten (W)-Dissolved | 0.000012 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Uranium (U)-Dissolved | 0.000588 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Vanadium (V)-Dissolved | 0.00094 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Zinc (Zn)-Dissolved | 0.0014 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761579 |
| Zirconium (Zr)-Dissolved | 0.000534 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 08-APR-22 | R5762400 |
| Chemical Oxygen Demand | 47 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 11-APR-22 | 11-APR-22 | R5761178 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.010 | | 0.010 | Bq/L | | 29-APR-22 | R5770477 |
| L2697806-13 SW25-SW-20220405 Sampled By: Client on 05-APR-22 @ 09:55 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 10.96 | | 0 | mg/L | | 10-APR-22 | R5759992 |
| pH, Client Supplied | 7.24 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | 2.14 | | 0 | Degree C | | 10-APR-22 | R5759992 |
| Physical Tests | | | | | | | |
| Color, True | 76.7 | | 2.0 | CU | | 09-APR-22 | R5759887 |
| Conductivity (EC) | 212 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 112 | | 0.51 | mg/L | | 19-APR-22 | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-13 SW25-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 09:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| pH | 7.77 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 176 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 10.6 | | 0.10 | NTU | | 09-APR-22 | R5759904 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.2 | <DL | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 96.2 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.024 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 18-APR-22 | |
| Chloride (Cl) | 7.05 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.038 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.048 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | 0.005 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.618 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 4.25 | <T | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 17.9 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762739 |
| Total Organic Carbon | 16.9 | | 0.50 | mg/L | | 14-APR-22 | R5764398 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.443 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000070 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00053 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0163 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | 0.0000010 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0030 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000006 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 27.2 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000520 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00084 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000215 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00210 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.497 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00027 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0020 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 10.1 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0338 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-13 SW25-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 09:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000435 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00130 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.005 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 1.41 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00198 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000155 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 4.79 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 2.74 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0510 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 1.4 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.00991 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000570 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00135 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0060 | <T | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000474 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.259 | | 0.0050 | mg/L | | 18-APR-22 | R5765518 |
| Antimony (Sb)-Dissolved | 0.000070 | <DL | 0.00060 | mg/L | | 18-APR-22 | R5765518 |
| Arsenic (As)-Dissolved | 0.000506 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Barium (Ba)-Dissolved | 0.0163 | | 0.010 | mg/L | | 18-APR-22 | R5765518 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Boron (B)-Dissolved | 0.0035 | <DL | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Cadmium (Cd)-Dissolved | 0.0000070 | <DL | 0.000017 | mg/L | | 18-APR-22 | R5765518 |
| Calcium (Ca)-Dissolved | 27.7 | | 0.20 | mg/L | | 18-APR-22 | R5765518 |
| Cesium (Cs)-Dissolved | 0.0000220 | | 0.000010 | mg/L | | 18-APR-22 | R5765518 |
| Chromium (Cr)-Dissolved | 0.00042 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Cobalt (Co)-Dissolved | 0.000166 | <DL | 0.00050 | mg/L | | 18-APR-22 | R5765518 |
| Copper (Cu)-Dissolved | 0.00192 | <T | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Iron (Fe)-Dissolved | 0.340 | | 0.020 | mg/L | | 18-APR-22 | R5765518 |
| Lead (Pb)-Dissolved | 0.00024 | <T | 0.000050 | mg/L | | 18-APR-22 | R5765518 |
| Lithium (Li)-Dissolved | 0.0020 | <DL | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Magnesium (Mg)-Dissolved | 10.5 | | 0.020 | mg/L | | 18-APR-22 | R5765518 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2697806-13 SW25-SW-20220405 Sampled By: Client on 05-APR-22 @ 09:55 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Manganese (Mn)-Dissolved | 0.0260 | | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000432 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Nickel (Ni)-Dissolved | 0.00118 | <DL | 0.0020 | mg/L | | 18-APR-22 | R5765518 |
| Phosphorus (P)-Dissolved | 0.005 | <DL | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Potassium (K)-Dissolved | 1.41 | | 0.50 | mg/L | | 18-APR-22 | R5765518 |
| Rubidium (Rb)-Dissolved | 0.00136 | | 0.00020 | mg/L | | 18-APR-22 | R5765518 |
| Selenium (Se)-Dissolved | 0.000155 | <T | 0.000050 | mg/L | | 18-APR-22 | R5765518 |
| Silicon (Si)-Dissolved | 4.44 | | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Silver (Ag)-Dissolved | 0.0000050 | <DL | 0.00010 | mg/L | | 18-APR-22 | R5765518 |
| Sodium (Na)-Dissolved | 2.81 | | 0.10 | mg/L | | 18-APR-22 | R5765518 |
| Strontium (Sr)-Dissolved | 0.0528 | | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Sulfur (S)-Dissolved | 1.6 | | 0.50 | mg/L | | 18-APR-22 | R5765518 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-APR-22 | R5765518 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 18-APR-22 | R5765518 |
| Tin (Sn)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Titanium (Ti)-Dissolved | 0.00538 | | 0.0020 | mg/L | | 18-APR-22 | R5765518 |
| Tungsten (W)-Dissolved | 0.000012 | <DL | 0.010 | mg/L | | 18-APR-22 | R5765518 |
| Uranium (U)-Dissolved | 0.000586 | <DL | 0.0050 | mg/L | | 18-APR-22 | R5765518 |
| Vanadium (V)-Dissolved | 0.00088 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Zinc (Zn)-Dissolved | 0.0054 | <T | 0.0030 | mg/L | | 18-APR-22 | R5765518 |
| Zirconium (Zr)-Dissolved | 0.000520 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 08-APR-22 | R5762400 |
| Chemical Oxygen Demand | 45 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 12-APR-22 | 12-APR-22 | R5761726 |
| L2697806-14 SW26-SW-20220405 Sampled By: Client on 05-APR-22 @ 09:40 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.57 | | 0 | mg/L | | 10-APR-22 | R5759992 |
| pH, Client Supplied | 7.32 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | 3.35 | | 0 | Degree C | | 10-APR-22 | R5759992 |
| Physical Tests | | | | | | | |
| Color, True | 74.8 | | 2.0 | CU | | 09-APR-22 | R5759887 |
| Conductivity (EC) | 221 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 117 | | 0.51 | mg/L | | 19-APR-22 | |
| pH | 7.79 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | 1.0 | <DL | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 162 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 11.2 | | 0.10 | NTU | | 09-APR-22 | R5759904 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-14 SW26-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 09:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.6 | <DL | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 99.2 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.016 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 18-APR-22 | |
| Chloride (Cl) | 7.66 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.040 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.072 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.773 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 5.20 | | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0010 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0009 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 17.7 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762739 |
| Total Organic Carbon | 17.1 | | 0.50 | mg/L | | 14-APR-22 | R5764398 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.612 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000075 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00061 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0183 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | 0.0000029 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0030 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000011 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 28.0 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000755 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00106 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000295 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00244 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.648 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00033 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0020 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 10.9 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0724 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000530 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00150 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-14 SW26-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 09:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Potassium (K)-Total | 1.57 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00234 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000135 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 5.14 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000007 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 3.00 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0573 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 1.6 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00007 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.0149 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | 0.00001 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000759 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00175 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0120 | | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000528 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.265 | | 0.0050 | mg/L | | 18-APR-22 | R5765518 |
| Antimony (Sb)-Dissolved | 0.000080 | <DL | 0.00060 | mg/L | | 18-APR-22 | R5765518 |
| Arsenic (As)-Dissolved | 0.000569 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Barium (Ba)-Dissolved | 0.0179 | | 0.010 | mg/L | | 18-APR-22 | R5765518 |
| Beryllium (Be)-Dissolved | 0.000018 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Bismuth (Bi)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Boron (B)-Dissolved | 0.0040 | <DL | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Cadmium (Cd)-Dissolved | 0.0000080 | <DL | 0.000017 | mg/L | | 18-APR-22 | R5765518 |
| Calcium (Ca)-Dissolved | 28.7 | | 0.20 | mg/L | | 18-APR-22 | R5765518 |
| Cesium (Cs)-Dissolved | 0.0000280 | | 0.000010 | mg/L | | 18-APR-22 | R5765518 |
| Chromium (Cr)-Dissolved | 0.00052 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Cobalt (Co)-Dissolved | 0.000228 | <DL | 0.00050 | mg/L | | 18-APR-22 | R5765518 |
| Copper (Cu)-Dissolved | 0.00226 | <T | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Iron (Fe)-Dissolved | 0.360 | | 0.020 | mg/L | | 18-APR-22 | R5765518 |
| Lead (Pb)-Dissolved | 0.00026 | <T | 0.000050 | mg/L | | 18-APR-22 | R5765518 |
| Lithium (Li)-Dissolved | 0.0024 | <DL | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Magnesium (Mg)-Dissolved | 11.0 | | 0.020 | mg/L | | 18-APR-22 | R5765518 |
| Manganese (Mn)-Dissolved | 0.0659 | | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000526 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Nickel (Ni)-Dissolved | 0.00128 | <DL | 0.0020 | mg/L | | 18-APR-22 | R5765518 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2697806-14 SW26-SW-20220405 Sampled By: Client on 05-APR-22 @ 09:40 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Potassium (K)-Dissolved | 1.53 | | 0.50 | mg/L | | 18-APR-22 | R5765518 |
| Rubidium (Rb)-Dissolved | 0.00143 | | 0.00020 | mg/L | | 18-APR-22 | R5765518 |
| Selenium (Se)-Dissolved | 0.000150 | <T | 0.000050 | mg/L | | 18-APR-22 | R5765518 |
| Silicon (Si)-Dissolved | 4.47 | | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Silver (Ag)-Dissolved | 0.0000050 | <DL | 0.00010 | mg/L | | 18-APR-22 | R5765518 |
| Sodium (Na)-Dissolved | 3.00 | | 0.10 | mg/L | | 18-APR-22 | R5765518 |
| Strontium (Sr)-Dissolved | 0.0580 | | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Sulfur (S)-Dissolved | 1.6 | | 0.50 | mg/L | | 18-APR-22 | R5765518 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-APR-22 | R5765518 |
| Thorium (Th)-Dissolved | 0.00005 | <DL | 0.00010 | mg/L | | 18-APR-22 | R5765518 |
| Tin (Sn)-Dissolved | 0.000005 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Titanium (Ti)-Dissolved | 0.00564 | | 0.0020 | mg/L | | 18-APR-22 | R5765518 |
| Tungsten (W)-Dissolved | 0.000014 | <DL | 0.010 | mg/L | | 18-APR-22 | R5765518 |
| Uranium (U)-Dissolved | 0.000770 | <DL | 0.0050 | mg/L | | 18-APR-22 | R5765518 |
| Vanadium (V)-Dissolved | 0.00096 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Zinc (Zn)-Dissolved | 0.0086 | <T | 0.0030 | mg/L | | 18-APR-22 | R5765518 |
| Zirconium (Zr)-Dissolved | 0.000540 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 08-APR-22 | R5762400 |
| Chemical Oxygen Demand | 50 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 12-APR-22 | 12-APR-22 | R5761726 |
| L2697806-15 SW27-SW-20220405 Sampled By: Client on 05-APR-22 @ 13:20 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 12.57 | | 0 | mg/L | | 10-APR-22 | R5759992 |
| pH, Client Supplied | 6.98 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | <0 | | 0 | Degree C | | 10-APR-22 | R5759992 |
| Physical Tests | | | | | | | |
| Color, True | 73.0 | | 2.0 | CU | | 09-APR-22 | R5759894 |
| Conductivity (EC) | 232 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 121 | | 0.51 | mg/L | | 19-APR-22 | |
| pH | 7.71 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | 1.0 | <DL | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 170 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 9.00 | | 0.10 | NTU | | 08-APR-22 | R5759576 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.4 | <DL | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 105 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.010 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2697806-15 SW27-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 13:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 18-APR-22 | |
| Chloride (Cl) | 6.33 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.042 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.060 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.642 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | 0.0069 | | 0.0030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 8.70 | | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 15.6 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762758 |
| Total Organic Carbon | 16.1 | | 0.50 | mg/L | | 14-APR-22 | R5764398 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.429 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000085 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00054 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0183 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0050 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000009 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 28.3 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000520 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00084 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000210 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00178 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.447 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00024 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0026 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 11.3 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0440 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000535 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00128 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 1.88 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00221 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000170 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 4.63 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-15 SW27-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 13:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Silver (Ag)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 3.35 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0596 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 3.0 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.0109 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | 0.00002 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000762 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00140 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0090 | <T | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000454 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.219 | | 0.0050 | mg/L | | 18-APR-22 | R5765518 |
| Antimony (Sb)-Dissolved | 0.000085 | <DL | 0.00060 | mg/L | | 18-APR-22 | R5765518 |
| Arsenic (As)-Dissolved | 0.000529 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Barium (Ba)-Dissolved | 0.0181 | | 0.010 | mg/L | | 18-APR-22 | R5765518 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Boron (B)-Dissolved | 0.0055 | <DL | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Cadmium (Cd)-Dissolved | 0.0000130 | <DL | 0.000017 | mg/L | | 18-APR-22 | R5765518 |
| Calcium (Ca)-Dissolved | 29.3 | | 0.20 | mg/L | | 18-APR-22 | R5765518 |
| Cesium (Cs)-Dissolved | 0.0000210 | | 0.000010 | mg/L | | 18-APR-22 | R5765518 |
| Chromium (Cr)-Dissolved | 0.00049 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Cobalt (Co)-Dissolved | 0.000146 | <DL | 0.00050 | mg/L | | 18-APR-22 | R5765518 |
| Copper (Cu)-Dissolved | 0.00156 | <T | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Iron (Fe)-Dissolved | 0.266 | | 0.020 | mg/L | | 18-APR-22 | R5765518 |
| Lead (Pb)-Dissolved | 0.00017 | <T | 0.000050 | mg/L | | 18-APR-22 | R5765518 |
| Lithium (Li)-Dissolved | 0.0026 | <DL | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Magnesium (Mg)-Dissolved | 11.5 | | 0.020 | mg/L | | 18-APR-22 | R5765518 |
| Manganese (Mn)-Dissolved | 0.0278 | | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000502 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Nickel (Ni)-Dissolved | 0.00116 | <DL | 0.0020 | mg/L | | 18-APR-22 | R5765518 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Potassium (K)-Dissolved | 1.87 | | 0.50 | mg/L | | 18-APR-22 | R5765518 |
| Rubidium (Rb)-Dissolved | 0.00165 | | 0.00020 | mg/L | | 18-APR-22 | R5765518 |
| Selenium (Se)-Dissolved | 0.000175 | <T | 0.000050 | mg/L | | 18-APR-22 | R5765518 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|----------|-----------|-----------|----------|
| L2697806-15 SW27-SW-20220405 Sampled By: Client on 05-APR-22 @ 13:20 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Silicon (Si)-Dissolved | 4.23 | | 0.050 | mg/L | | 18-APR-22 | R5765518 |
| Silver (Ag)-Dissolved | 0.0000040 | <DL | 0.00010 | mg/L | | 18-APR-22 | R5765518 |
| Sodium (Na)-Dissolved | 3.27 | | 0.10 | mg/L | | 18-APR-22 | R5765518 |
| Strontium (Sr)-Dissolved | 0.0589 | | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Sulfur (S)-Dissolved | 3.0 | | 0.50 | mg/L | | 18-APR-22 | R5765518 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 18-APR-22 | R5765518 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 18-APR-22 | R5765518 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Titanium (Ti)-Dissolved | 0.00564 | | 0.0020 | mg/L | | 18-APR-22 | R5765518 |
| Tungsten (W)-Dissolved | 0.000012 | <DL | 0.010 | mg/L | | 18-APR-22 | R5765518 |
| Uranium (U)-Dissolved | 0.000773 | <DL | 0.0050 | mg/L | | 18-APR-22 | R5765518 |
| Vanadium (V)-Dissolved | 0.00088 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Zinc (Zn)-Dissolved | 0.0046 | <T | 0.0030 | mg/L | | 18-APR-22 | R5765518 |
| Zirconium (Zr)-Dissolved | 0.000402 | <DL | 0.0010 | mg/L | | 18-APR-22 | R5765518 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-APR-22 | R5763242 |
| Chemical Oxygen Demand | 45 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 12-APR-22 | 12-APR-22 | R5761726 |
| L2697806-16 SW28A-SW-20220405 Sampled By: Client on 05-APR-22 @ 11:35 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 10.7 | | 0 | mg/L | | 10-APR-22 | R5759992 |
| pH, Client Supplied | 7.21 | | 0.10 | pH | | 10-APR-22 | R5759992 |
| Temperature, Client Supplied | 1.27 | | 0 | Degree C | | 10-APR-22 | R5759992 |
| Physical Tests | | | | | | | |
| Color, True | 109 | | 2.0 | CU | | 09-APR-22 | R5759894 |
| Conductivity (EC) | 213 | | 1.0 | uS/cm | | 08-APR-22 | R5759848 |
| Hardness (as CaCO3) | 113 | | 0.51 | mg/L | | 12-APR-22 | |
| pH | 7.72 | | 0.10 | pH | | 08-APR-22 | R5759848 |
| Total Suspended Solids | 6.5 | | 3.0 | mg/L | | 08-APR-22 | R5760022 |
| Total Dissolved Solids | 168 | | 13 | mg/L | | 08-APR-22 | R5760378 |
| Turbidity | 7.43 | | 0.10 | NTU | | 08-APR-22 | R5759437 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.0 | <DL | 2.0 | mg/L | | 09-APR-22 | R5760198 |
| Alkalinity, Total (as CaCO3) | 104 | | 2.0 | mg/L | | 08-APR-22 | R5759848 |
| Ammonia, Total (as N) | 0.074 | <T | 0.0050 | mg/L | | 14-APR-22 | R5763416 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 18-APR-22 | |
| Chloride (Cl) | 2.28 | | 0.10 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Fluoride (F) | 0.049 | | 0.020 | mg/L | 08-APR-22 | 11-APR-22 | R5761596 |
| Nitrate (as N) | 0.032 | <T | 0.020 | mg/L | | 11-APR-22 | R5761596 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-16 SW28A-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 11:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Nitrite (as N) | 0.004 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761596 |
| Total Kjeldahl Nitrogen | 0.842 | | 0.050 | mg/L | 11-APR-22 | 13-APR-22 | R5762435 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 08-APR-22 | 11-APR-22 | R5760839 |
| Sulfate (SO4) | 2.90 | <T | 0.30 | mg/L | | 11-APR-22 | R5761596 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761530 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 21.2 | | 0.50 | mg/L | 13-APR-22 | 13-APR-22 | R5762758 |
| Total Organic Carbon | 22.5 | | 0.50 | mg/L | | 14-APR-22 | R5764398 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.342 | | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Antimony (Sb)-Total | 0.000055 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761547 |
| Arsenic (As)-Total | 0.00078 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Barium (Ba)-Total | 0.0181 | | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Beryllium (Be)-Total | 0.0000049 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Boron (B)-Total | 0.0040 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Cadmium (Cd)-Total | 0.000007 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761547 |
| Calcium (Ca)-Total | 27.2 | | 0.20 | mg/L | | 11-APR-22 | R5761547 |
| Cesium (Cs)-Total | 0.0000375 | | 0.000010 | mg/L | | 11-APR-22 | R5761547 |
| Chromium (Cr)-Total | 0.00080 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Cobalt (Co)-Total | 0.000385 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761547 |
| Copper (Cu)-Total | 0.00120 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Iron (Fe)-Total | 0.697 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Lead (Pb)-Total | 0.00024 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Lithium (Li)-Total | 0.0028 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Magnesium (Mg)-Total | 11.9 | | 0.020 | mg/L | | 11-APR-22 | R5761547 |
| Manganese (Mn)-Total | 0.0930 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762463 |
| Molybdenum (Mo)-Total | 0.000490 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Nickel (Ni)-Total | 0.00126 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761547 |
| Potassium (K)-Total | 1.42 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |
| Rubidium (Rb)-Total | 0.00230 | | 0.00020 | mg/L | | 11-APR-22 | R5761547 |
| Selenium (Se)-Total | 0.000185 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761547 |
| Silicon (Si)-Total | 4.77 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Silver (Ag)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Sodium (Na)-Total | 1.71 | | 0.10 | mg/L | | 11-APR-22 | R5761547 |
| Strontium (Sr)-Total | 0.0563 | | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Sulfur (S)-Total | 1.0 | | 0.50 | mg/L | | 11-APR-22 | R5761547 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2697806-16 SW28A-SW-20220405 | | | | | | | |
| Sampled By: Client on 05-APR-22 @ 11:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 11-APR-22 | R5761547 |
| Thorium (Th)-Total | 0.00007 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761547 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Titanium (Ti)-Total | 0.0101 | | 0.0020 | mg/L | | 11-APR-22 | R5761547 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 11-APR-22 | R5761547 |
| Uranium (U)-Total | 0.000711 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761547 |
| Vanadium (V)-Total | 0.00125 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Zinc (Zn)-Total | 0.0020 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761547 |
| Zirconium (Zr)-Total | 0.000486 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761547 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 11-APR-22 | R5760845 |
| Aluminum (Al)-Dissolved | 0.292 | | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Antimony (Sb)-Dissolved | 0.000050 | <DL | 0.00060 | mg/L | | 11-APR-22 | R5761579 |
| Arsenic (As)-Dissolved | 0.000742 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Barium (Ba)-Dissolved | 0.0166 | | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Boron (B)-Dissolved | 0.0045 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Cadmium (Cd)-Dissolved | 0.0000030 | <DL | 0.000017 | mg/L | | 11-APR-22 | R5761579 |
| Calcium (Ca)-Dissolved | 26.4 | | 0.20 | mg/L | | 11-APR-22 | R5761579 |
| Cesium (Cs)-Dissolved | 0.0000220 | | 0.000010 | mg/L | | 11-APR-22 | R5761579 |
| Chromium (Cr)-Dissolved | 0.00046 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Cobalt (Co)-Dissolved | 0.000180 | <DL | 0.00050 | mg/L | | 11-APR-22 | R5761579 |
| Copper (Cu)-Dissolved | 0.00104 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Iron (Fe)-Dissolved | 0.506 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Lead (Pb)-Dissolved | 0.00014 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Lithium (Li)-Dissolved | 0.0034 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Magnesium (Mg)-Dissolved | 11.4 | | 0.020 | mg/L | | 11-APR-22 | R5761579 |
| Manganese (Mn)-Dissolved | 0.0340 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.000030 | mg/L | | 13-APR-22 | R5762481 |
| Molybdenum (Mo)-Dissolved | 0.000480 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Nickel (Ni)-Dissolved | 0.00108 | <DL | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Phosphorus (P)-Dissolved | 0.005 | <DL | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Potassium (K)-Dissolved | 1.40 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Rubidium (Rb)-Dissolved | 0.00200 | | 0.00020 | mg/L | | 11-APR-22 | R5761579 |
| Selenium (Se)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 11-APR-22 | R5761579 |
| Silicon (Si)-Dissolved | 4.82 | | 0.050 | mg/L | | 11-APR-22 | R5761579 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Sodium (Na)-Dissolved | 1.69 | | 0.10 | mg/L | | 11-APR-22 | R5761579 |
| Strontium (Sr)-Dissolved | 0.0564 | | 0.0010 | mg/L | | 11-APR-22 | R5761579 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|-------|-----------|-----------|----------|
| L2697806-16 SW28A-SW-20220405 Sampled By: Client on 05-APR-22 @ 11:35 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Sulfur (S)-Dissolved | 1.0 | | 0.50 | mg/L | | 11-APR-22 | R5761579 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 11-APR-22 | R5761579 |
| Thorium (Th)-Dissolved | 0.00007 | <DL | 0.00010 | mg/L | | 11-APR-22 | R5761579 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Titanium (Ti)-Dissolved | 0.0115 | | 0.0020 | mg/L | | 11-APR-22 | R5761579 |
| Tungsten (W)-Dissolved | 0.000006 | <DL | 0.010 | mg/L | | 11-APR-22 | R5761579 |
| Uranium (U)-Dissolved | 0.000701 | <DL | 0.0050 | mg/L | | 11-APR-22 | R5761579 |
| Vanadium (V)-Dissolved | 0.00108 | <T | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Zinc (Zn)-Dissolved | 0.0016 | <DL | 0.0030 | mg/L | | 11-APR-22 | R5761579 |
| Zirconium (Zr)-Dissolved | 0.000602 | <DL | 0.0010 | mg/L | | 11-APR-22 | R5761579 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-APR-22 | R5763242 |
| Chemical Oxygen Demand | 68 | | 10 | mg/L | 11-APR-22 | 12-APR-22 | R5761766 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 12-APR-22 | 12-APR-22 | R5761726 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------|----------------------|-----------|---|
| Method Blank | Chloride (Cl) | B | L2697806-10, -11, -12, -13, -14, -15, -16, -7, -8, -9 |
| Method Blank | Chloride (Cl) | MB-LOR | L2697806-1, -2, -3, -4, -5, -6 |
| Matrix Spike | Aluminum (Al)-Total | MS-B | L2697806-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Aluminum (Al)-Total | MS-B | L2697806-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Total | MS-B | L2697806-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Total | MS-B | L2697806-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Total | MS-B | L2697806-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Total | MS-B | L2697806-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Manganese (Mn)-Total | MS-B | L2697806-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Manganese (Mn)-Total | MS-B | L2697806-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Potassium (K)-Total | MS-B | L2697806-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Total | MS-B | L2697806-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Total | MS-B | L2697806-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Total | MS-B | L2697806-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Total | MS-B | L2697806-1, -10, -11, -12, -13, -14, -15, -16, -2, -3, -4, -5, -6, -7, -8, -9 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|--|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| B | Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable. |
| DLM | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |
| MB-LOR | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| PEHR | Parameter Exceeded Recommended Holding Time On Receipt: Proceed With Analysis As Requested. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|----------|---|--|
| ACY-MISA-TB | Effluent | Acidity (as CaCO ₃) | APHA 2310 B-POTENTIOMETRIC TITRATION |
| Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample. | | | |
| ALK-MISA-TB | Effluent | Alkalinity, Total (as CaCO ₃) | APHA 2320 B-Auto-Pot. Titration |
| This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. | | | |
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
| All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation. | | | |
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
| This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis. | | | |
| | | Total Cyanide by CFA | ISO 14403-2:2012 (modified) |

Reference Information

CN-T-MISA-CFA-WT Effluent

This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.

Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

CN-WAD-MISA-CFA-WT Effluent Weak Acid Dissociable Cyanide by CFA APHA 4500-CN CYANIDE (modified)

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

COD-TB Water Chemical Oxygen Demand APHA 5220D

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

COLOUR-TB Water Colour, True APHA 2120 C

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

DO-CLIENT-TB Water Dissolved Oxygen, Client Supplied Result supplied by Client

DOC-WT Effluent Dissolved Organic Carbon for MISA APHA 5310 B-Instrumental

EC-MISA-TB Effluent Conductivity (EC) APHA 2510 B-ELECTRODE

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

F-IC-N-TB Water Fluoride in Water by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-TB Effluent Hardness (as CaCO₃) CALCULATION

HG-DIS-WT Effluent Mercury (Hg)-Dissolved for MISA SW846 7470A

HG-TOT-WT Effluent Mercury (Hg)-Total for MISA SW846 7470A

MET-D-MISA-TB Effluent Dissolved Metals in Water (MISA) APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

MET-T-MISA-TB Effluent Total Metals in Water (MISA) EPA 200.2/6020B (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

NH3-MISA-F-TB Effluent Ammonia by Discrete Analyzer catnr 157/158 062217/99321057 (modified)

Ammonia is determined by Flow-injection analysis with fluorescence detection

NH3-UNION-CALC-TB Effluent Un-ionized ammonia Calculation

NO2-MISA-IC-TB Effluent Nitrite in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

NO3-MISA-IC-TB Effluent Nitrate in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

Oil and Grease, Total for MISA APHA 5520 B-Hexane Gravimetric

Reference Information

| | | | |
|--|----------|------------------------------|---------------------------------------|
| OGG-TOT-WT | Effluent | | |
| PH-CLIENT-TB | Water | pH | Result supplied by Client |
| PH-MISA-TB | Effluent | pH | APHA 4500-H-ELECTRODE |
| This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode | | | |
| PO4-DO-COL-TB | Water | Dissolved Orthophosphate | APHA 4500-P B, F, G (modified) |
| Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection. | | | |
| RA226-MMER-BE | Water | Radium 226 | Radium Isotopes by Alpha Spectrometry |
| Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry. | | | |
| SO4-MISA-IC-TB | Effluent | Sulfate in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| TDS-MISA-TB | Effluent | Total Dissolved Solids | APHA 2540 C (modified) |
| Aqueous matrices are analyzed using gravimetry and evaporation | | | |
| TEMP-CLIENT-TB | Water | Temperature | Result supplied by Client |
| TKN-F-TB | Water | TKN in Water by Fluorescence | catnr 157/158, 062818/99334821 |
| Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection | | | |
| TOC-WT | Water | Total Organic Carbon | APHA 5310B |
| Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector. | | | |
| TSS-MISA-TB | Effluent | Total Suspended Solids | APHA 2540 D (modified) |
| Aqueous matrices are analyzed using gravimetry | | | |
| TURBIDITY-TB | Water | Turbidity | APHA 2130 B-Nephelometer |
| Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle. | | | |

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |
| BE | BUREAU VERITAS - MISSISSAUGA, ONTARIO, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| BOD-TB | | Water | | | | | | |
| Batch | R5762400 | | | | | | | |
| WG3715152-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 109.8 | | % | | 85-115 | 08-APR-22 |
| WG3715152-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 08-APR-22 |
| Batch | R5763242 | | | | | | | |
| WG3715470-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 99.6 | | % | | 85-115 | 09-APR-22 |
| WG3715470-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 09-APR-22 |
| CL-L-IC-N-TB | | Water | | | | | | |
| Batch | R5761596 | | | | | | | |
| WG3715340-3 | DUP | L2697806-7 | | | | | | |
| Chloride (Cl) | | 3.98 | 3.99 | | mg/L | 0.1 | 20 | 11-APR-22 |
| WG3715116-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 100.3 | | % | | 90-110 | 11-APR-22 |
| WG3715340-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 100.5 | | % | | 90-110 | 11-APR-22 |
| WG3715116-1 | MB | | | | | | | |
| Chloride (Cl) | | | 0.16 | MB-LOR | mg/L | | 0.1 | 11-APR-22 |
| WG3715340-1 | MB | | | | | | | |
| Chloride (Cl) | | | 0.13 | B | mg/L | | 0.1 | 11-APR-22 |
| WG3715340-4 | MS | L2697806-8 | | | | | | |
| Chloride (Cl) | | | 117.8 | | % | | 75-125 | 11-APR-22 |
| COD-TB | | Water | | | | | | |
| Batch | R5761766 | | | | | | | |
| WG3715836-3 | DUP | L2697806-1 | | | | | | |
| Chemical Oxygen Demand | | <10 | <10 | RPD-NA | mg/L | N/A | 20 | 12-APR-22 |
| WG3715836-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 110.5 | | % | | 85-115 | 12-APR-22 |
| WG3715836-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 12-APR-22 |
| WG3715836-4 | MS | L2697806-2 | | | | | | |
| Chemical Oxygen Demand | | | 105.4 | | % | | 75-125 | 12-APR-22 |
| COLOUR-TB | | Water | | | | | | |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| COLOUR-TB | | Water | | | | | | |
| Batch | R5759887 | | | | | | | |
| WG3715114-2 | LCS | | | | | | | |
| Color, True | | | 101.8 | | % | | 85-115 | 09-APR-22 |
| WG3715114-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 09-APR-22 |
| Batch | R5759894 | | | | | | | |
| WG3715328-3 | DUP | L2697806-15 | | | | | | |
| Color, True | | 73.0 | 73.1 | | CU | 0.2 | 20 | 09-APR-22 |
| WG3715328-2 | LCS | | | | | | | |
| Color, True | | | 103.3 | | % | | 85-115 | 09-APR-22 |
| WG3715328-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 09-APR-22 |
| F-IC-N-TB | | Water | | | | | | |
| Batch | R5761596 | | | | | | | |
| WG3715340-3 | DUP | L2697806-7 | | | | | | |
| Fluoride (F) | | 0.037 | 0.036 | | mg/L | 2.4 | 20 | 11-APR-22 |
| WG3715116-2 | LCS | | | | | | | |
| Fluoride (F) | | | 104.8 | | % | | 90-110 | 11-APR-22 |
| WG3715340-2 | LCS | | | | | | | |
| Fluoride (F) | | | 106.2 | | % | | 90-110 | 11-APR-22 |
| WG3715116-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 11-APR-22 |
| WG3715340-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 11-APR-22 |
| WG3715340-4 | MS | L2697806-8 | | | | | | |
| Fluoride (F) | | | 90.2 | | % | | 75-125 | 11-APR-22 |
| PO4-DO-COL-TB | | Water | | | | | | |
| Batch | R5760839 | | | | | | | |
| WG3715335-3 | DUP | L2697806-1 | | | | | | |
| Orthophosphate-Dissolved (as P) | | <0.0030 | <0.0030 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| WG3715335-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 97.9 | | % | | 80-120 | 11-APR-22 |
| WG3715335-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0030 | | mg/L | | 0.003 | 11-APR-22 |
| TKN-F-TB | | Water | | | | | | |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| TKN-F-TB | | Water | | | | | | |
| Batch | R5762435 | | | | | | | |
| WG3715826-3 | DUP | L2697806-13 | | | | | | |
| Total Kjeldahl Nitrogen | | 0.618 | 0.607 | | mg/L | 1.8 | 20 | 13-APR-22 |
| WG3715829-3 | DUP | L2697806-15 | | | | | | |
| Total Kjeldahl Nitrogen | | 0.642 | 0.647 | | mg/L | 0.8 | 20 | 13-APR-22 |
| WG3715826-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 102.2 | | % | | 75-125 | 13-APR-22 |
| WG3715829-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 110.3 | | % | | 75-125 | 13-APR-22 |
| WG3715826-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 13-APR-22 |
| WG3715829-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 13-APR-22 |
| WG3715826-4 | MS | L2697806-14 | | | | | | |
| Total Kjeldahl Nitrogen | | | 102.7 | | % | | 70-130 | 13-APR-22 |
| TOC-WT | | Water | | | | | | |
| Batch | R5762791 | | | | | | | |
| WG3716272-3 | DUP | WG3716272-5 | | | | | | |
| Total Organic Carbon | | 4.26 | 4.26 | | mg/L | 0.1 | 20 | 13-APR-22 |
| WG3716272-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 99.3 | | % | | 80-120 | 13-APR-22 |
| WG3716272-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 13-APR-22 |
| WG3716272-4 | MS | WG3716272-5 | | | | | | |
| Total Organic Carbon | | | 100.1 | | % | | 70-130 | 13-APR-22 |
| Batch | R5764398 | | | | | | | |
| WG3716876-3 | DUP | L2698123-1 | | | | | | |
| Total Organic Carbon | | 2.66 | 2.44 | | mg/L | 8.6 | 20 | 14-APR-22 |
| WG3716876-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 104.4 | | % | | 80-120 | 14-APR-22 |
| WG3716876-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 14-APR-22 |
| WG3716876-4 | MS | L2698123-1 | | | | | | |
| Total Organic Carbon | | | 92.7 | | % | | 70-130 | 14-APR-22 |
| TURBIDITY-TB | | Water | | | | | | |
| Batch | R5759437 | | | | | | | |
| WG3715323-2 | LCS | | | | | | | |
| Turbidity | | | 99.0 | | % | | 85-115 | 08-APR-22 |
| WG3715323-1 | MB | | | | | | | |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| TURBIDITY-TB | | Water | | | | | | |
| Batch | R5759437 | | | | | | | |
| WG3715323-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 08-APR-22 |
| Batch | R5759576 | | | | | | | |
| WG3715394-2 | LCS | | | | | | | |
| Turbidity | | | 101.0 | | % | | 85-115 | 08-APR-22 |
| WG3715394-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 08-APR-22 |
| Batch | R5759904 | | | | | | | |
| WG3715532-2 | LCS | | | | | | | |
| Turbidity | | | 99.5 | | % | | 85-115 | 09-APR-22 |
| WG3715532-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 09-APR-22 |
| ACY-MISA-TB | | Effluent | | | | | | |
| Batch | R5760198 | | | | | | | |
| WG3715109-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 96.1 | | % | | 85-115 | 09-APR-22 |
| WG3715109-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | 1.4 | | mg/L | | 3 | 09-APR-22 |
| ALK-MISA-TB | | Effluent | | | | | | |
| Batch | R5759848 | | | | | | | |
| WG3715321-3 | DUP | L2697806-3 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 94.0 | 93.2 | | mg/L | 0.9 | 20 | 08-APR-22 |
| Alkalinity, Phenolphthalein | | <0.2 | <0.2 | RPD-NA | mg/L | N/A | 25 | 08-APR-22 |
| WG3715105-2 | LCS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 101.4 | | % | | 85-115 | 08-APR-22 |
| WG3715321-2 | LCS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 100.9 | | % | | 85-115 | 08-APR-22 |
| WG3715105-1 | MB | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 0.8 | | mg/L | | 2 | 08-APR-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 08-APR-22 |
| WG3715321-1 | MB | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 0.2 | | mg/L | | 2 | 08-APR-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 08-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------------------|------------------------------|----------------------|---------|-----------|-------|-----|--------|-----------|
| ALK-MISA-TB Effluent | | | | | | | | |
| Batch R5761322 | | | | | | | | |
| WG3715737-2 LCS | | | | | | | | |
| | Alkalinity, Total (as CaCO3) | | 101.5 | | % | | 85-115 | 11-APR-22 |
| WG3715737-1 MB | | | | | | | | |
| | Alkalinity, Total (as CaCO3) | | 0.2 | | mg/L | | 2 | 11-APR-22 |
| | Alkalinity, Phenolphthalein | | <0.2 | | mg/L | | 2 | 11-APR-22 |
| CN-FREE-MISA-CFA-WT Effluent | | | | | | | | |
| Batch R5761530 | | | | | | | | |
| WG3716211-3 DUP | | | | | | | | |
| | Cyanide, Free | L2697806-7 0.0005 | 0.0004 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| WG3716211-2 LCS | | | | | | | | |
| | Cyanide, Free | | 104.3 | | % | | 80-120 | 11-APR-22 |
| WG3716211-1 MB | | | | | | | | |
| | Cyanide, Free | | 0.0001 | | mg/L | | 0.002 | 11-APR-22 |
| WG3716211-4 MS | | | | | | | | |
| | Cyanide, Free | L2697806-7 | 109.1 | | % | | 75-125 | 11-APR-22 |
| CN-T-MISA-CFA-WT Effluent | | | | | | | | |
| Batch R5761530 | | | | | | | | |
| WG3716211-3 DUP | | | | | | | | |
| | Cyanide, Total | L2697806-7 0.0006 | 0.0004 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| WG3716211-2 LCS | | | | | | | | |
| | Cyanide, Total | | 106.0 | | % | | 80-120 | 11-APR-22 |
| WG3716211-1 MB | | | | | | | | |
| | Cyanide, Total | | 0.0002 | | mg/L | | 0.002 | 11-APR-22 |
| WG3716211-4 MS | | | | | | | | |
| | Cyanide, Total | L2697806-7 | 108.6 | | % | | 75-125 | 11-APR-22 |
| CN-WAD-MISA-CFA-WT Effluent | | | | | | | | |
| Batch R5761530 | | | | | | | | |
| WG3716211-3 DUP | | | | | | | | |
| | Cyanide, Weak Acid Diss | L2697806-7 0.0007 | 0.0004 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| WG3716211-2 LCS | | | | | | | | |
| | Cyanide, Weak Acid Diss | | 109.1 | | % | | 80-120 | 11-APR-22 |
| WG3716211-1 MB | | | | | | | | |
| | Cyanide, Weak Acid Diss | | <0.0001 | | mg/L | | 0.002 | 11-APR-22 |
| WG3716211-4 MS | | | | | | | | |
| | Cyanide, Weak Acid Diss | L2697806-7 | 113.6 | | % | | 75-125 | 11-APR-22 |
| DOC-WT Effluent | | | | | | | | |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|------------|--------------------|-----------|-----------|-------|-----|---------|-----------|
| DOC-WT | | Effluent | | | | | | |
| Batch R5762739 | | | | | | | | |
| WG3716704-3 | DUP | WG3716704-5 | | | | | | |
| Dissolved Organic Carbon | | 14.3 | 15.0 | | mg/L | 4.6 | 25 | 13-APR-22 |
| WG3716704-2 | LCS | | 106.2 | | % | | 70-130 | 13-APR-22 |
| Dissolved Organic Carbon | | | | | | | | |
| WG3716704-1 | MB | | <0.50 | | mg/L | | 0.5 | 13-APR-22 |
| Dissolved Organic Carbon | | | | | | | | |
| Batch R5762758 | | | | | | | | |
| WG3716713-3 | DUP | L2697806-1 | | | | | | |
| Dissolved Organic Carbon | | <0.50 | <0.50 | RPD-NA | mg/L | N/A | 25 | 13-APR-22 |
| WG3716713-2 | LCS | | 95.4 | | % | | 70-130 | 13-APR-22 |
| Dissolved Organic Carbon | | | | | | | | |
| WG3716713-1 | MB | | <0.50 | | mg/L | | 0.5 | 13-APR-22 |
| Dissolved Organic Carbon | | | | | | | | |
| EC-MISA-TB | | Effluent | | | | | | |
| Batch R5759848 | | | | | | | | |
| WG3715321-3 | DUP | L2697806-3 | | | | | | |
| Conductivity (EC) | | 236 | 234 | | uS/cm | 0.9 | 10 | 08-APR-22 |
| WG3715105-2 | LCS | | 100.7 | | % | | 90-110 | 08-APR-22 |
| Conductivity (EC) | | | | | | | | |
| WG3715321-2 | LCS | | 100.2 | | % | | 90-110 | 08-APR-22 |
| Conductivity (EC) | | | | | | | | |
| WG3715105-1 | MB | | <0.2 | | uS/cm | | 2 | 08-APR-22 |
| Conductivity (EC) | | | | | | | | |
| WG3715321-1 | MB | | <0.2 | | uS/cm | | 2 | 08-APR-22 |
| Conductivity (EC) | | | | | | | | |
| Batch R5760198 | | | | | | | | |
| WG3715109-2 | LCS | | 99.3 | | % | | 90-110 | 09-APR-22 |
| Conductivity (EC) | | | | | | | | |
| WG3715109-1 | MB | | 0.2 | | uS/cm | | 2 | 09-APR-22 |
| Conductivity (EC) | | | | | | | | |
| HG-DIS-WT | | Effluent | | | | | | |
| Batch R5762481 | | | | | | | | |
| WG3716843-3 | DUP | L2697806-1 | | | | | | |
| Mercury (Hg)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 13-APR-22 |
| WG3716843-2 | LCS | | 99.9 | | % | | 80-120 | 13-APR-22 |
| Mercury (Hg)-Dissolved | | | | | | | | |
| WG3716843-1 | MB | | | | | | 0.00003 | |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|-----|---------|-----------|
| HG-DIS-WT | | Effluent | | | | | | |
| Batch | R5762481 | | | | | | | |
| WG3716843-1 MB | | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.00003 | 13-APR-22 |
| WG3716843-4 MS | | L2697806-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 95.5 | | % | | 70-130 | 13-APR-22 |
| HG-TOT-WT | | Effluent | | | | | | |
| Batch | R5762463 | | | | | | | |
| WG3716841-3 DUP | | L2697806-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 13-APR-22 |
| WG3716841-2 LCS | | | | | | | | |
| Mercury (Hg)-Total | | | 101.0 | | % | | 80-120 | 13-APR-22 |
| WG3716841-1 MB | | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.00003 | 13-APR-22 |
| WG3716841-4 MS | | L2697806-2 | | | | | | |
| Mercury (Hg)-Total | | | 94.0 | | % | | 70-130 | 13-APR-22 |
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5761579 | | | | | | | |
| WG3715883-11 DUP | | L2697806-16 | | | | | | |
| Aluminum (Al)-Dissolved | | 0.292 | 0.301 | | mg/L | 3.2 | 20 | 11-APR-22 |
| Antimony (Sb)-Dissolved | | 0.000050 | 0.000050 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Arsenic (As)-Dissolved | | 0.000742 | 0.000767 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Barium (Ba)-Dissolved | | 0.0166 | 0.0164 | | mg/L | 0.7 | 20 | 11-APR-22 |
| Beryllium (Be)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Bismuth (Bi)-Dissolved | | <0.000002 | 0.000002 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Boron (B)-Dissolved | | 0.0045 | 0.0040 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Cadmium (Cd)-Dissolved | | 0.0000030 | 0.0000050 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Calcium (Ca)-Dissolved | | 26.4 | 26.0 | | mg/L | 1.8 | 20 | 11-APR-22 |
| Cesium (Cs)-Dissolved | | 0.0000220 | 0.0000210 | | mg/L | 4.7 | 20 | 11-APR-22 |
| Chromium (Cr)-Dissolved | | 0.00046 | 0.00049 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Cobalt (Co)-Dissolved | | 0.000180 | 0.000198 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Copper (Cu)-Dissolved | | 0.00104 | 0.00106 | | mg/L | 1.3 | 20 | 11-APR-22 |
| Iron (Fe)-Dissolved | | 0.506 | 0.510 | | mg/L | 0.8 | 20 | 11-APR-22 |
| Lead (Pb)-Dissolved | | 0.00014 | 0.00015 | | mg/L | 7.9 | 20 | 11-APR-22 |
| Lithium (Li)-Dissolved | | 0.0034 | 0.0034 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Magnesium (Mg)-Dissolved | | 11.4 | 11.6 | | mg/L | 1.7 | 20 | 11-APR-22 |
| Manganese (Mn)-Dissolved | | 0.0340 | 0.0392 | | mg/L | 14 | 20 | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5761579 | | | | | | | |
| WG3715883-11 | DUP | L2697806-16 | | | | | | |
| Molybdenum (Mo)-Dissolved | | 0.000480 | 0.000478 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Nickel (Ni)-Dissolved | | 0.00108 | 0.00102 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Phosphorus (P)-Dissolved | | 0.005 | 0.005 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Potassium (K)-Dissolved | | 1.40 | 1.41 | | mg/L | 0.8 | 20 | 11-APR-22 |
| Rubidium (Rb)-Dissolved | | 0.00200 | 0.00209 | | mg/L | 4.7 | 20 | 11-APR-22 |
| Selenium (Se)-Dissolved | | 0.000180 | 0.000155 | | mg/L | 15 | 20 | 11-APR-22 |
| Silicon (Si)-Dissolved | | 4.82 | 4.86 | | mg/L | 0.8 | 20 | 11-APR-22 |
| Silver (Ag)-Dissolved | | 0.0000020 | 0.0000020 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Sodium (Na)-Dissolved | | 1.69 | 1.66 | | mg/L | 1.7 | 20 | 11-APR-22 |
| Strontium (Sr)-Dissolved | | 0.0564 | 0.0551 | | mg/L | 2.4 | 20 | 11-APR-22 |
| Sulfur (S)-Dissolved | | 1.0 | 0.8 | | mg/L | 13 | 20 | 11-APR-22 |
| Tellurium (Te)-Dissolved | | <0.00001 | 0.00002 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Thallium (Tl)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Thorium (Th)-Dissolved | | 0.00007 | 0.00007 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Tin (Sn)-Dissolved | | <0.000005 | 0.000005 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Titanium (Ti)-Dissolved | | 0.0115 | 0.0119 | | mg/L | 3.5 | 20 | 11-APR-22 |
| Tungsten (W)-Dissolved | | 0.000006 | 0.000006 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Uranium (U)-Dissolved | | 0.000701 | 0.000716 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Vanadium (V)-Dissolved | | 0.00108 | 0.00108 | | mg/L | 0.8 | 20 | 11-APR-22 |
| Zinc (Zn)-Dissolved | | 0.0016 | 0.0016 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Zirconium (Zr)-Dissolved | | 0.000602 | 0.000616 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| WG3715883-10 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 101.2 | | % | | 80-120 | 11-APR-22 |
| Antimony (Sb)-Dissolved | | | 100.5 | | % | | 80-120 | 11-APR-22 |
| Arsenic (As)-Dissolved | | | 103.4 | | % | | 80-120 | 11-APR-22 |
| Barium (Ba)-Dissolved | | | 102.3 | | % | | 80-120 | 11-APR-22 |
| Beryllium (Be)-Dissolved | | | 99.2 | | % | | 80-120 | 11-APR-22 |
| Bismuth (Bi)-Dissolved | | | 106.4 | | % | | 80-120 | 11-APR-22 |
| Boron (B)-Dissolved | | | 96.7 | | % | | 80-120 | 11-APR-22 |
| Cadmium (Cd)-Dissolved | | | 98.7 | | % | | 80-120 | 11-APR-22 |
| Calcium (Ca)-Dissolved | | | 102.1 | | % | | 80-120 | 11-APR-22 |
| Cesium (Cs)-Dissolved | | | 100.5 | | % | | 80-120 | 11-APR-22 |
| Chromium (Cr)-Dissolved | | | 101.9 | | % | | 80-120 | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|------------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5761579 | | | | | | | |
| WG3715883-10 LCS | | | | | | | | |
| Cobalt (Co)-Dissolved | | | 98.6 | | % | | 80-120 | 11-APR-22 |
| Copper (Cu)-Dissolved | | | 97.9 | | % | | 80-120 | 11-APR-22 |
| Iron (Fe)-Dissolved | | | 104.0 | | % | | 80-120 | 11-APR-22 |
| Lead (Pb)-Dissolved | | | 103.1 | | % | | 80-120 | 11-APR-22 |
| Lithium (Li)-Dissolved | | | 100.1 | | % | | 80-120 | 11-APR-22 |
| Magnesium (Mg)-Dissolved | | | 99.9 | | % | | 80-120 | 11-APR-22 |
| Manganese (Mn)-Dissolved | | | 101.5 | | % | | 80-120 | 11-APR-22 |
| Molybdenum (Mo)-Dissolved | | | 101.8 | | % | | 80-120 | 11-APR-22 |
| Nickel (Ni)-Dissolved | | | 99.7 | | % | | 80-120 | 11-APR-22 |
| Phosphorus (P)-Dissolved | | | 111.0 | | % | | 70-130 | 11-APR-22 |
| Potassium (K)-Dissolved | | | 106.1 | | % | | 80-120 | 11-APR-22 |
| Rubidium (Rb)-Dissolved | | | 103.5 | | % | | 80-120 | 11-APR-22 |
| Selenium (Se)-Dissolved | | | 99.3 | | % | | 80-120 | 11-APR-22 |
| Silicon (Si)-Dissolved | | | 105.4 | | % | | 60-140 | 11-APR-22 |
| Silver (Ag)-Dissolved | | | 94.7 | | % | | 80-120 | 11-APR-22 |
| Sodium (Na)-Dissolved | | | 106.1 | | % | | 80-120 | 11-APR-22 |
| Strontium (Sr)-Dissolved | | | 100.3 | | % | | 80-120 | 11-APR-22 |
| Sulfur (S)-Dissolved | | | 105.5 | | % | | 80-120 | 11-APR-22 |
| Tellurium (Te)-Dissolved | | | 104.2 | | % | | 80-120 | 11-APR-22 |
| Thallium (Tl)-Dissolved | | | 104.1 | | % | | 80-120 | 11-APR-22 |
| Thorium (Th)-Dissolved | | | 102.2 | | % | | 80-120 | 11-APR-22 |
| Tin (Sn)-Dissolved | | | 101.3 | | % | | 80-120 | 11-APR-22 |
| Titanium (Ti)-Dissolved | | | 99.9 | | % | | 80-120 | 11-APR-22 |
| Tungsten (W)-Dissolved | | | 102.8 | | % | | 80-120 | 11-APR-22 |
| Uranium (U)-Dissolved | | | 100.7 | | % | | 80-120 | 11-APR-22 |
| Vanadium (V)-Dissolved | | | 100.7 | | % | | 80-120 | 11-APR-22 |
| Zinc (Zn)-Dissolved | | | 98.4 | | % | | 80-120 | 11-APR-22 |
| Zirconium (Zr)-Dissolved | | | 104.5 | | % | | 80-120 | 11-APR-22 |
| WG3715883-9 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 0.0004 | | mg/L | | 0.005 | 11-APR-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 11-APR-22 |
| Arsenic (As)-Dissolved | | | <0.0000002 | | mg/L | | 0.001 | 11-APR-22 |
| Barium (Ba)-Dissolved | | | <0.000005 | | mg/L | | 0.01 | 11-APR-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | Effluent | | | | | | | |
| Batch | R5761579 | | | | | | | |
| WG3715883-9 MB | | | | | | | | |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 11-APR-22 |
| Boron (B)-Dissolved | | | 0.0015 | | mg/L | | 0.05 | 11-APR-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000005 | | mg/L | | 0.000017 | 11-APR-22 |
| Calcium (Ca)-Dissolved | | | <0.002 | | mg/L | | 0.2 | 11-APR-22 |
| Cesium (Cs)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 11-APR-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 11-APR-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 11-APR-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 11-APR-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 11-APR-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 11-APR-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 11-APR-22 |
| Magnesium (Mg)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 11-APR-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 11-APR-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 11-APR-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 11-APR-22 |
| Phosphorus (P)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 11-APR-22 |
| Potassium (K)-Dissolved | | | <0.01 | | mg/L | | 0.5 | 11-APR-22 |
| Rubidium (Rb)-Dissolved | | | <0.000002 | | mg/L | | 0.0002 | 11-APR-22 |
| Selenium (Se)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 11-APR-22 |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 11-APR-22 |
| Silver (Ag)-Dissolved | | | <0.0000005 | | mg/L | | 0.0001 | 11-APR-22 |
| Sodium (Na)-Dissolved | | | 0.005 | | mg/L | | 0.1 | 11-APR-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 11-APR-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 11-APR-22 |
| Tellurium (Te)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 11-APR-22 |
| Thallium (Tl)-Dissolved | | | <0.000002 | | mg/L | | 0.0003 | 11-APR-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 11-APR-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 11-APR-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 11-APR-22 |
| Tungsten (W)-Dissolved | | | <0.000002 | | mg/L | | 0.01 | 11-APR-22 |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.005 | 11-APR-22 |
| Vanadium (V)-Dissolved | | | 0.00004 | | mg/L | | 0.001 | 11-APR-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.003 | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|-------------------|------------|-----------|-------|-----|-------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5761579 | | | | | | | |
| WG3715883-9 MB | | | | | | | | |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 11-APR-22 |
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5761547 | | | | | | | |
| WG3715781-11 DUP | | L2697823-5 | | | | | | |
| Aluminum (Al)-Total | | 0.0032 | 0.0044 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Antimony (Sb)-Total | | 0.0190 | 0.0194 | | mg/L | 1.9 | 20 | 11-APR-22 |
| Arsenic (As)-Total | | 0.00155 | 0.00164 | | mg/L | 5.8 | 20 | 11-APR-22 |
| Barium (Ba)-Total | | 0.0555 | 0.0575 | | mg/L | 3.5 | 20 | 11-APR-22 |
| Beryllium (Be)-Total | | <0.0000001 | <0.0000001 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Bismuth (Bi)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Boron (B)-Total | | 0.147 | 0.148 | | mg/L | 0.4 | 20 | 11-APR-22 |
| Cadmium (Cd)-Total | | 0.000007 | 0.000004 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Calcium (Ca)-Total | | 185 | 188 | | mg/L | 1.9 | 20 | 11-APR-22 |
| Cesium (Cs)-Total | | 0.000307 | 0.000313 | | mg/L | 2.2 | 20 | 11-APR-22 |
| Chromium (Cr)-Total | | 0.00014 | 0.00012 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Cobalt (Co)-Total | | 0.00105 | 0.00103 | | mg/L | 2.0 | 20 | 11-APR-22 |
| Copper (Cu)-Total | | 0.00654 | 0.00658 | | mg/L | 0.9 | 20 | 11-APR-22 |
| Iron (Fe)-Total | | 0.0100 | 0.0125 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Lead (Pb)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Lithium (Li)-Total | | 0.0162 | 0.0162 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Magnesium (Mg)-Total | | 29.1 | 29.1 | | mg/L | 0.1 | 20 | 11-APR-22 |
| Manganese (Mn)-Total | | 0.0164 | 0.0166 | | mg/L | 2.0 | 20 | 11-APR-22 |
| Molybdenum (Mo)-Total | | 0.0139 | 0.0140 | | mg/L | 0.9 | 20 | 11-APR-22 |
| Nickel (Ni)-Total | | 0.00132 | 0.00130 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Phosphorus (P)-Total | | <0.005 | <0.005 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Potassium (K)-Total | | 75.6 | 76.1 | | mg/L | 0.7 | 20 | 11-APR-22 |
| Rubidium (Rb)-Total | | 0.0371 | 0.0384 | | mg/L | 3.4 | 20 | 11-APR-22 |
| Selenium (Se)-Total | | 0.000475 | 0.000415 | | mg/L | 13 | 20 | 11-APR-22 |
| Silicon (Si)-Total | | 1.01 | 1.07 | | mg/L | 5.7 | 20 | 11-APR-22 |
| Silver (Ag)-Total | | <0.000001 | 0.000001 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Sodium (Na)-Total | | 159 | 161 | | mg/L | 0.7 | 20 | 11-APR-22 |
| Strontium (Sr)-Total | | 0.751 | 0.749 | | mg/L | 0.2 | 20 | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-------------------|------------|-----------|-------|-----|-------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5761547 | | | | | | | |
| WG3715781-11 | DUP | L2697823-5 | | | | | | |
| Sulfur (S)-Total | | 320 | 322 | | mg/L | 0.5 | 20 | 11-APR-22 |
| Tellurium (Te)-Total | | 0.00004 | 0.00008 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Thallium (Tl)-Total | | 0.000010 | 0.000010 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Thorium (Th)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Tin (Sn)-Total | | 0.00001 | 0.00001 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Titanium (Ti)-Total | | 0.00032 | 0.00029 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Tungsten (W)-Total | | 0.00009 | 0.00009 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Uranium (U)-Total | | 0.00238 | 0.00237 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Vanadium (V)-Total | | 0.00030 | 0.00030 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Zinc (Zn)-Total | | 0.0030 | 0.0020 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Zirconium (Zr)-Total | | 0.000038 | 0.000040 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| WG3715781-7 | DUP | L2697806-7 | | | | | | |
| Aluminum (Al)-Total | | 0.147 | 0.143 | | mg/L | 2.6 | 20 | 11-APR-22 |
| Antimony (Sb)-Total | | 0.000040 | 0.000040 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Arsenic (As)-Total | | 0.00046 | 0.00044 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Barium (Ba)-Total | | 0.0112 | 0.0115 | | mg/L | 2.6 | 20 | 11-APR-22 |
| Beryllium (Be)-Total | | <0.0000001 | <0.0000001 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Bismuth (Bi)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Boron (B)-Total | | 0.0025 | 0.0025 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Cadmium (Cd)-Total | | 0.000004 | 0.000002 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Calcium (Ca)-Total | | 10.5 | 10.4 | | mg/L | 1.2 | 20 | 11-APR-22 |
| Cesium (Cs)-Total | | 0.0000195 | 0.0000185 | | mg/L | 5.3 | 20 | 11-APR-22 |
| Chromium (Cr)-Total | | 0.00048 | 0.00048 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Cobalt (Co)-Total | | 0.000135 | 0.000130 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Copper (Cu)-Total | | 0.00114 | 0.00112 | | mg/L | 0.9 | 20 | 11-APR-22 |
| Iron (Fe)-Total | | 0.206 | 0.204 | | mg/L | 1.0 | 20 | 11-APR-22 |
| Lead (Pb)-Total | | 0.00010 | 0.00010 | | mg/L | 0.0 | 20 | 11-APR-22 |
| Lithium (Li)-Total | | 0.0014 | 0.0014 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Magnesium (Mg)-Total | | 3.82 | 3.85 | | mg/L | 0.8 | 20 | 11-APR-22 |
| Manganese (Mn)-Total | | 0.0170 | 0.0168 | | mg/L | 0.7 | 20 | 11-APR-22 |
| Molybdenum (Mo)-Total | | 0.000295 | 0.000290 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Nickel (Ni)-Total | | 0.00084 | 0.00086 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Phosphorus (P)-Total | | 0.045 | 0.045 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5761547 | | | | | | | |
| WG3715781-7 DUP | | L2697806-7 | | | | | | |
| Potassium (K)-Total | | 1.67 | 1.69 | | mg/L | 1.0 | 20 | 11-APR-22 |
| Rubidium (Rb)-Total | | 0.00252 | 0.00250 | | mg/L | 1.0 | 20 | 11-APR-22 |
| Selenium (Se)-Total | | 0.000100 | 0.000120 | | mg/L | 19 | 20 | 11-APR-22 |
| Silicon (Si)-Total | | 2.47 | 2.48 | | mg/L | 0.4 | 20 | 11-APR-22 |
| Silver (Ag)-Total | | 0.000001 | 0.000001 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Sodium (Na)-Total | | 3.70 | 3.68 | | mg/L | 0.4 | 20 | 11-APR-22 |
| Strontium (Sr)-Total | | 0.0280 | 0.0278 | | mg/L | 0.7 | 20 | 11-APR-22 |
| Sulfur (S)-Total | | 1.4 | 1.6 | | mg/L | 4.5 | 20 | 11-APR-22 |
| Tellurium (Te)-Total | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Thallium (Tl)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Thorium (Th)-Total | | 0.00004 | 0.00003 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Tin (Sn)-Total | | 0.00002 | 0.00002 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Titanium (Ti)-Total | | 0.00519 | 0.00467 | | mg/L | 11 | 20 | 11-APR-22 |
| Tungsten (W)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Uranium (U)-Total | | 0.000200 | 0.000211 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Vanadium (V)-Total | | 0.00070 | 0.00065 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Zinc (Zn)-Total | | 0.0015 | 0.0020 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| Zirconium (Zr)-Total | | 0.000252 | 0.000228 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| WG3715781-10 LCS | | | | | | | | |
| Aluminum (Al)-Total | | | 100.9 | | % | | 80-120 | 11-APR-22 |
| Antimony (Sb)-Total | | | 104.3 | | % | | 80-120 | 11-APR-22 |
| Arsenic (As)-Total | | | 103.8 | | % | | 80-120 | 11-APR-22 |
| Barium (Ba)-Total | | | 104.5 | | % | | 80-120 | 11-APR-22 |
| Beryllium (Be)-Total | | | 98.6 | | % | | 80-120 | 11-APR-22 |
| Bismuth (Bi)-Total | | | 110.2 | | % | | 80-120 | 11-APR-22 |
| Boron (B)-Total | | | 95.6 | | % | | 80-120 | 11-APR-22 |
| Cadmium (Cd)-Total | | | 103.4 | | % | | 80-120 | 11-APR-22 |
| Calcium (Ca)-Total | | | 102.8 | | % | | 80-120 | 11-APR-22 |
| Cesium (Cs)-Total | | | 104.0 | | % | | 80-120 | 11-APR-22 |
| Chromium (Cr)-Total | | | 101.3 | | % | | 80-120 | 11-APR-22 |
| Cobalt (Co)-Total | | | 101.6 | | % | | 80-120 | 11-APR-22 |
| Copper (Cu)-Total | | | 100.9 | | % | | 80-120 | 11-APR-22 |
| Iron (Fe)-Total | | | 105.8 | | % | | 80-120 | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5761547 | | | | | | | |
| WG3715781-10 LCS | | | | | | | | |
| Lead (Pb)-Total | | | 106.5 | | % | | 80-120 | 11-APR-22 |
| Lithium (Li)-Total | | | 97.5 | | % | | 80-120 | 11-APR-22 |
| Magnesium (Mg)-Total | | | 106.5 | | % | | 80-120 | 11-APR-22 |
| Manganese (Mn)-Total | | | 101.2 | | % | | 80-120 | 11-APR-22 |
| Molybdenum (Mo)-Total | | | 104.5 | | % | | 80-120 | 11-APR-22 |
| Nickel (Ni)-Total | | | 103.0 | | % | | 80-120 | 11-APR-22 |
| Phosphorus (P)-Total | | | 101.9 | | % | | 80-120 | 11-APR-22 |
| Potassium (K)-Total | | | 111.5 | | % | | 80-120 | 11-APR-22 |
| Rubidium (Rb)-Total | | | 106.6 | | % | | 80-120 | 11-APR-22 |
| Selenium (Se)-Total | | | 106.3 | | % | | 80-120 | 11-APR-22 |
| Silicon (Si)-Total | | | 108.2 | | % | | 80-120 | 11-APR-22 |
| Silver (Ag)-Total | | | 96.9 | | % | | 80-120 | 11-APR-22 |
| Sodium (Na)-Total | | | 106.3 | | % | | 80-120 | 11-APR-22 |
| Strontium (Sr)-Total | | | 101.1 | | % | | 80-120 | 11-APR-22 |
| Sulfur (S)-Total | | | 103.0 | | % | | 80-120 | 11-APR-22 |
| Tellurium (Te)-Total | | | 109.6 | | % | | 80-120 | 11-APR-22 |
| Thallium (Tl)-Total | | | 108.2 | | % | | 80-120 | 11-APR-22 |
| Thorium (Th)-Total | | | 104.9 | | % | | 80-120 | 11-APR-22 |
| Tin (Sn)-Total | | | 104.4 | | % | | 80-120 | 11-APR-22 |
| Titanium (Ti)-Total | | | 97.8 | | % | | 80-120 | 11-APR-22 |
| Tungsten (W)-Total | | | 107.9 | | % | | 80-120 | 11-APR-22 |
| Uranium (U)-Total | | | 104.1 | | % | | 80-120 | 11-APR-22 |
| Vanadium (V)-Total | | | 102.8 | | % | | 80-120 | 11-APR-22 |
| Zinc (Zn)-Total | | | 101.2 | | % | | 80-120 | 11-APR-22 |
| Zirconium (Zr)-Total | | | 106.3 | | % | | 80-120 | 11-APR-22 |
| WG3715781-6 LCS | | | | | | | | |
| Aluminum (Al)-Total | | | 101.8 | | % | | 80-120 | 11-APR-22 |
| Antimony (Sb)-Total | | | 101.6 | | % | | 80-120 | 11-APR-22 |
| Arsenic (As)-Total | | | 104.3 | | % | | 80-120 | 11-APR-22 |
| Barium (Ba)-Total | | | 102.2 | | % | | 80-120 | 11-APR-22 |
| Beryllium (Be)-Total | | | 101.9 | | % | | 80-120 | 11-APR-22 |
| Bismuth (Bi)-Total | | | 111.4 | | % | | 80-120 | 11-APR-22 |
| Boron (B)-Total | | | 95.8 | | % | | 80-120 | 11-APR-22 |
| Cadmium (Cd)-Total | | | 101.8 | | % | | 80-120 | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5761547 | | | | | | | |
| WG3715781-6 | LCS | | | | | | | |
| Calcium (Ca)-Total | | | 103.3 | | % | | 80-120 | 11-APR-22 |
| Cesium (Cs)-Total | | | 101.0 | | % | | 80-120 | 11-APR-22 |
| Chromium (Cr)-Total | | | 100.1 | | % | | 80-120 | 11-APR-22 |
| Cobalt (Co)-Total | | | 99.5 | | % | | 80-120 | 11-APR-22 |
| Copper (Cu)-Total | | | 99.6 | | % | | 80-120 | 11-APR-22 |
| Iron (Fe)-Total | | | 103.3 | | % | | 80-120 | 11-APR-22 |
| Lead (Pb)-Total | | | 106.0 | | % | | 80-120 | 11-APR-22 |
| Lithium (Li)-Total | | | 102.1 | | % | | 80-120 | 11-APR-22 |
| Magnesium (Mg)-Total | | | 102.3 | | % | | 80-120 | 11-APR-22 |
| Manganese (Mn)-Total | | | 101.3 | | % | | 80-120 | 11-APR-22 |
| Molybdenum (Mo)-Total | | | 104.0 | | % | | 80-120 | 11-APR-22 |
| Nickel (Ni)-Total | | | 99.9 | | % | | 80-120 | 11-APR-22 |
| Phosphorus (P)-Total | | | 102.6 | | % | | 80-120 | 11-APR-22 |
| Potassium (K)-Total | | | 110.0 | | % | | 80-120 | 11-APR-22 |
| Rubidium (Rb)-Total | | | 103.8 | | % | | 80-120 | 11-APR-22 |
| Selenium (Se)-Total | | | 104.9 | | % | | 80-120 | 11-APR-22 |
| Silicon (Si)-Total | | | 107.2 | | % | | 80-120 | 11-APR-22 |
| Silver (Ag)-Total | | | 95.6 | | % | | 80-120 | 11-APR-22 |
| Sodium (Na)-Total | | | 105.2 | | % | | 80-120 | 11-APR-22 |
| Strontium (Sr)-Total | | | 103.9 | | % | | 80-120 | 11-APR-22 |
| Sulfur (S)-Total | | | 99.8 | | % | | 80-120 | 11-APR-22 |
| Tellurium (Te)-Total | | | 103.6 | | % | | 80-120 | 11-APR-22 |
| Thallium (Tl)-Total | | | 107.7 | | % | | 80-120 | 11-APR-22 |
| Thorium (Th)-Total | | | 106.0 | | % | | 80-120 | 11-APR-22 |
| Tin (Sn)-Total | | | 101.2 | | % | | 80-120 | 11-APR-22 |
| Titanium (Ti)-Total | | | 101.3 | | % | | 80-120 | 11-APR-22 |
| Tungsten (W)-Total | | | 107.5 | | % | | 80-120 | 11-APR-22 |
| Uranium (U)-Total | | | 110.5 | | % | | 80-120 | 11-APR-22 |
| Vanadium (V)-Total | | | 101.2 | | % | | 80-120 | 11-APR-22 |
| Zinc (Zn)-Total | | | 102.2 | | % | | 80-120 | 11-APR-22 |
| Zirconium (Zr)-Total | | | 106.4 | | % | | 80-120 | 11-APR-22 |
| WG3715781-5 | MB | | | | | | | |
| Aluminum (Al)-Total | | | 0.0024 | | mg/L | | 0.005 | 11-APR-22 |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5761547 | | | | | | | |
| WG3715781-5 MB | | | | | | | | |
| Arsenic (As)-Total | | | 0.00002 | | mg/L | | 0.001 | 11-APR-22 |
| Barium (Ba)-Total | | | <0.00001 | | mg/L | | 0.01 | 11-APR-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 11-APR-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 11-APR-22 |
| Boron (B)-Total | | | 0.0025 | | mg/L | | 0.05 | 11-APR-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 11-APR-22 |
| Calcium (Ca)-Total | | | 0.004 | | mg/L | | 0.2 | 11-APR-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 11-APR-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 11-APR-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 11-APR-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 11-APR-22 |
| Iron (Fe)-Total | | | <0.0005 | | mg/L | | 0.02 | 11-APR-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 11-APR-22 |
| Lithium (Li)-Total | | | 0.0006 | | mg/L | | 0.05 | 11-APR-22 |
| Magnesium (Mg)-Total | | | 0.0004 | | mg/L | | 0.02 | 11-APR-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 11-APR-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 11-APR-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 11-APR-22 |
| Phosphorus (P)-Total | | | <0.005 | | mg/L | | 0.05 | 11-APR-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 11-APR-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 11-APR-22 |
| Selenium (Se)-Total | | | 0.000005 | | mg/L | | 0.00005 | 11-APR-22 |
| Silicon (Si)-Total | | | 0.034 | | mg/L | | 0.1 | 11-APR-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 11-APR-22 |
| Sodium (Na)-Total | | | 0.015 | | mg/L | | 0.1 | 11-APR-22 |
| Strontium (Sr)-Total | | | 0.000005 | | mg/L | | 0.001 | 11-APR-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 11-APR-22 |
| Tellurium (Te)-Total | | | <0.00002 | | mg/L | | 0.001 | 11-APR-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 11-APR-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 11-APR-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 11-APR-22 |
| Titanium (Ti)-Total | | | 0.00002 | | mg/L | | 0.002 | 11-APR-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5761547 | | | | | | | |
| WG3715781-5 MB | | | | | | | | |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.005 | 11-APR-22 |
| Vanadium (V)-Total | | | 0.00015 | | mg/L | | 0.001 | 11-APR-22 |
| Zinc (Zn)-Total | | | 0.0005 | | mg/L | | 0.003 | 11-APR-22 |
| Zirconium (Zr)-Total | | | 0.000008 | | mg/L | | 0.001 | 11-APR-22 |
| WG3715781-9 MB | | | | | | | | |
| Aluminum (Al)-Total | | | 0.0010 | | mg/L | | 0.005 | 11-APR-22 |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 11-APR-22 |
| Arsenic (As)-Total | | | 0.00002 | | mg/L | | 0.001 | 11-APR-22 |
| Barium (Ba)-Total | | | <0.00001 | | mg/L | | 0.01 | 11-APR-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 11-APR-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 11-APR-22 |
| Boron (B)-Total | | | 0.0020 | | mg/L | | 0.05 | 11-APR-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 11-APR-22 |
| Calcium (Ca)-Total | | | 0.004 | | mg/L | | 0.2 | 11-APR-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 11-APR-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 11-APR-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 11-APR-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 11-APR-22 |
| Iron (Fe)-Total | | | <0.0005 | | mg/L | | 0.02 | 11-APR-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 11-APR-22 |
| Lithium (Li)-Total | | | <0.0002 | | mg/L | | 0.05 | 11-APR-22 |
| Magnesium (Mg)-Total | | | 0.0004 | | mg/L | | 0.02 | 11-APR-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 11-APR-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 11-APR-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 11-APR-22 |
| Phosphorus (P)-Total | | | <0.005 | | mg/L | | 0.05 | 11-APR-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 11-APR-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 11-APR-22 |
| Selenium (Se)-Total | | | <0.000005 | | mg/L | | 0.00005 | 11-APR-22 |
| Silicon (Si)-Total | | | 0.032 | | mg/L | | 0.1 | 11-APR-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 11-APR-22 |
| Sodium (Na)-Total | | | 0.005 | | mg/L | | 0.1 | 11-APR-22 |
| Strontium (Sr)-Total | | | <0.000005 | | mg/L | | 0.001 | 11-APR-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|------------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5761547 | | | | | | | |
| WG3715781-9 MB | | | | | | | | |
| Tellurium (Te)-Total | | | <0.00002 | | mg/L | | 0.001 | 11-APR-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 11-APR-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 11-APR-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 11-APR-22 |
| Titanium (Ti)-Total | | | 0.00001 | | mg/L | | 0.002 | 11-APR-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 11-APR-22 |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.005 | 11-APR-22 |
| Vanadium (V)-Total | | | 0.00015 | | mg/L | | 0.001 | 11-APR-22 |
| Zinc (Zn)-Total | | | 0.0010 | | mg/L | | 0.003 | 11-APR-22 |
| Zirconium (Zr)-Total | | | 0.000006 | | mg/L | | 0.001 | 11-APR-22 |
| WG3715781-12 MS | | L2697823-6 | | | | | | |
| Aluminum (Al)-Total | | | N/A | MS-B | % | | - | 11-APR-22 |
| Antimony (Sb)-Total | | | 104.3 | | % | | 70-130 | 11-APR-22 |
| Arsenic (As)-Total | | | 101.3 | | % | | 70-130 | 11-APR-22 |
| Barium (Ba)-Total | | | 117.2 | | % | | 70-130 | 11-APR-22 |
| Beryllium (Be)-Total | | | 95.6 | | % | | 70-130 | 11-APR-22 |
| Bismuth (Bi)-Total | | | 104.8 | | % | | 70-130 | 11-APR-22 |
| Boron (B)-Total | | | 95.6 | | % | | 70-130 | 11-APR-22 |
| Cadmium (Cd)-Total | | | 100.3 | | % | | 70-130 | 11-APR-22 |
| Calcium (Ca)-Total | | | N/A | MS-B | % | | - | 11-APR-22 |
| Cesium (Cs)-Total | | | 100.9 | | % | | 70-130 | 11-APR-22 |
| Chromium (Cr)-Total | | | 102.6 | | % | | 70-130 | 11-APR-22 |
| Cobalt (Co)-Total | | | 99.8 | | % | | 70-130 | 11-APR-22 |
| Copper (Cu)-Total | | | 99.5 | | % | | 70-130 | 11-APR-22 |
| Iron (Fe)-Total | | | 112.4 | | % | | 70-130 | 11-APR-22 |
| Lead (Pb)-Total | | | 102.8 | | % | | 70-130 | 11-APR-22 |
| Lithium (Li)-Total | | | 90.4 | | % | | 70-130 | 11-APR-22 |
| Magnesium (Mg)-Total | | | N/A | MS-B | % | | - | 11-APR-22 |
| Manganese (Mn)-Total | | | N/A | MS-B | % | | - | 11-APR-22 |
| Molybdenum (Mo)-Total | | | 102.4 | | % | | 70-130 | 11-APR-22 |
| Nickel (Ni)-Total | | | 101.5 | | % | | 70-130 | 11-APR-22 |
| Phosphorus (P)-Total | | | 104.8 | | % | | 70-130 | 11-APR-22 |
| Potassium (K)-Total | | | N/A | MS-B | % | | - | 11-APR-22 |
| Rubidium (Rb)-Total | | | 103.8 | | % | | 70-130 | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5761547 | | | | | | | |
| WG3715781-12 MS | | L2697823-6 | | | | | | |
| Selenium (Se)-Total | | | 101.1 | | % | | 70-130 | 11-APR-22 |
| Silicon (Si)-Total | | | 110.1 | | % | | 70-130 | 11-APR-22 |
| Silver (Ag)-Total | | | 101.4 | | % | | 70-130 | 11-APR-22 |
| Sodium (Na)-Total | | | N/A | MS-B | % | | - | 11-APR-22 |
| Strontium (Sr)-Total | | | N/A | MS-B | % | | - | 11-APR-22 |
| Sulfur (S)-Total | | | 106.6 | | % | | 70-130 | 11-APR-22 |
| Tellurium (Te)-Total | | | 103.9 | | % | | 70-130 | 11-APR-22 |
| Thallium (Tl)-Total | | | 101.9 | | % | | 70-130 | 11-APR-22 |
| Thorium (Th)-Total | | | 104.0 | | % | | 70-130 | 11-APR-22 |
| Tin (Sn)-Total | | | 101.8 | | % | | 70-130 | 11-APR-22 |
| Tungsten (W)-Total | | | 103.0 | | % | | 70-130 | 11-APR-22 |
| Uranium (U)-Total | | | 103.8 | | % | | 70-130 | 11-APR-22 |
| Vanadium (V)-Total | | | 102.6 | | % | | 70-130 | 11-APR-22 |
| Zinc (Zn)-Total | | | 100.4 | | % | | 70-130 | 11-APR-22 |
| Zirconium (Zr)-Total | | | 106.6 | | % | | 70-130 | 11-APR-22 |
| WG3715781-8 MS | | L2697806-8 | | | | | | |
| Aluminum (Al)-Total | | | N/A | MS-B | % | | - | 11-APR-22 |
| Antimony (Sb)-Total | | | 101.2 | | % | | 70-130 | 11-APR-22 |
| Arsenic (As)-Total | | | 101.3 | | % | | 70-130 | 11-APR-22 |
| Barium (Ba)-Total | | | 106.1 | | % | | 70-130 | 11-APR-22 |
| Beryllium (Be)-Total | | | 97.2 | | % | | 70-130 | 11-APR-22 |
| Bismuth (Bi)-Total | | | 106.6 | | % | | 70-130 | 11-APR-22 |
| Boron (B)-Total | | | 95.6 | | % | | 70-130 | 11-APR-22 |
| Cadmium (Cd)-Total | | | 102.5 | | % | | 70-130 | 11-APR-22 |
| Calcium (Ca)-Total | | | N/A | MS-B | % | | - | 11-APR-22 |
| Cesium (Cs)-Total | | | 103.3 | | % | | 70-130 | 11-APR-22 |
| Chromium (Cr)-Total | | | 101.1 | | % | | 70-130 | 11-APR-22 |
| Cobalt (Co)-Total | | | 101.4 | | % | | 70-130 | 11-APR-22 |
| Copper (Cu)-Total | | | 99.4 | | % | | 70-130 | 11-APR-22 |
| Iron (Fe)-Total | | | 99.3 | | % | | 70-130 | 11-APR-22 |
| Lead (Pb)-Total | | | 103.5 | | % | | 70-130 | 11-APR-22 |
| Lithium (Li)-Total | | | 96.6 | | % | | 70-130 | 11-APR-22 |
| Magnesium (Mg)-Total | | | N/A | MS-B | % | | - | 11-APR-22 |
| Manganese (Mn)-Total | | | N/A | MS-B | % | | - | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5761547 | | | | | | | |
| WG3715781-8 | MS | L2697806-8 | | | | | | |
| Molybdenum (Mo)-Total | | | 107.3 | | % | | 70-130 | 11-APR-22 |
| Nickel (Ni)-Total | | | 102.3 | | % | | 70-130 | 11-APR-22 |
| Phosphorus (P)-Total | | | 99.5 | | % | | 70-130 | 11-APR-22 |
| Potassium (K)-Total | | | 101.1 | | % | | 70-130 | 11-APR-22 |
| Rubidium (Rb)-Total | | | 102.9 | | % | | 70-130 | 11-APR-22 |
| Selenium (Se)-Total | | | 104.0 | | % | | 70-130 | 11-APR-22 |
| Silicon (Si)-Total | | | 101.2 | | % | | 70-130 | 11-APR-22 |
| Silver (Ag)-Total | | | 101.8 | | % | | 70-130 | 11-APR-22 |
| Sodium (Na)-Total | | | N/A | MS-B | % | | - | 11-APR-22 |
| Strontium (Sr)-Total | | | N/A | MS-B | % | | - | 11-APR-22 |
| Sulfur (S)-Total | | | 106.5 | | % | | 70-130 | 11-APR-22 |
| Tellurium (Te)-Total | | | 104.5 | | % | | 70-130 | 11-APR-22 |
| Thallium (Tl)-Total | | | 102.6 | | % | | 70-130 | 11-APR-22 |
| Thorium (Th)-Total | | | 105.4 | | % | | 70-130 | 11-APR-22 |
| Tin (Sn)-Total | | | 102.0 | | % | | 70-130 | 11-APR-22 |
| Titanium (Ti)-Total | | | 102.2 | | % | | 70-130 | 11-APR-22 |
| Tungsten (W)-Total | | | 105.0 | | % | | 70-130 | 11-APR-22 |
| Uranium (U)-Total | | | 105.4 | | % | | 70-130 | 11-APR-22 |
| Vanadium (V)-Total | | | 101.9 | | % | | 70-130 | 11-APR-22 |
| Zinc (Zn)-Total | | | 100.5 | | % | | 70-130 | 11-APR-22 |
| Zirconium (Zr)-Total | | | 106.3 | | % | | 70-130 | 11-APR-22 |
| NH3-MISA-F-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5763416 | | | | | | | |
| WG3715819-2 | LCS | | | | | | | |
| Ammonia, Total (as N) | | | 100.9 | | % | | 85-115 | 14-APR-22 |
| WG3715823-2 | LCS | | | | | | | |
| Ammonia, Total (as N) | | | 104.1 | | % | | 85-115 | 14-APR-22 |
| WG3715819-1 | MB | | | | | | | |
| Ammonia, Total (as N) | | | <0.002 | | mg/L | | 0.005 | 14-APR-22 |
| WG3715823-1 | MB | | | | | | | |
| Ammonia, Total (as N) | | | 0.002 | | mg/L | | 0.005 | 14-APR-22 |
| NO2-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| NO2-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5761596 | | | | | | | |
| WG3715340-3 | DUP | L2697806-7 | | | | | | |
| Nitrite (as N) | | 0.002 | <0.001 | RPD-NA | mg/L | N/A | 20 | 11-APR-22 |
| WG3715116-2 | LCS | | | | | | | |
| Nitrite (as N) | | | 99.7 | | % | | 90-110 | 11-APR-22 |
| WG3715340-2 | LCS | | | | | | | |
| Nitrite (as N) | | | 103.8 | | % | | 90-110 | 11-APR-22 |
| WG3715116-1 | MB | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 11-APR-22 |
| WG3715340-1 | MB | | | | | | | |
| Nitrite (as N) | | | 0.001 | | mg/L | | 0.01 | 11-APR-22 |
| WG3715340-4 | MS | L2697806-8 | | | | | | |
| Nitrite (as N) | | | 96.8 | | % | | 75-125 | 11-APR-22 |
| NO3-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5761596 | | | | | | | |
| WG3715340-3 | DUP | L2697806-7 | | | | | | |
| Nitrate (as N) | | 0.086 | 0.098 | | mg/L | 14 | 20 | 11-APR-22 |
| WG3715116-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 101.2 | | % | | 90-110 | 11-APR-22 |
| WG3715340-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 99.6 | | % | | 90-110 | 11-APR-22 |
| WG3715116-1 | MB | | | | | | | |
| Nitrate (as N) | | | 0.018 | | mg/L | | 0.02 | 11-APR-22 |
| WG3715340-1 | MB | | | | | | | |
| Nitrate (as N) | | | 0.006 | | mg/L | | 0.02 | 11-APR-22 |
| WG3715340-4 | MS | L2697806-8 | | | | | | |
| Nitrate (as N) | | | 101.6 | | % | | 75-125 | 11-APR-22 |
| OGG-TOT-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5760636 | | | | | | | |
| WG3715718-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 90.2 | | % | | 50-150 | 11-APR-22 |
| WG3715718-1 | MB | | | | | | | |
| Oil and Grease, Total | | | 0.8 | | mg/L | | 1 | 11-APR-22 |
| Batch | R5761178 | | | | | | | |
| WG3715927-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 91.2 | | % | | 50-150 | 11-APR-22 |
| WG3715927-1 | MB | | | | | | | |
| Oil and Grease, Total | | | 0.2 | | mg/L | | 1 | 11-APR-22 |



Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| TDS-MISA-TB | Effluent | | | | | | | |
| Batch R5760378 | | | | | | | | |
| WG3715815-1 MB | | | | | | | | |
| Total Dissolved Solids | | | 4 | | mg/L | | 10 | 08-APR-22 |
| TSS-MISA-TB | Effluent | | | | | | | |
| Batch R5760022 | | | | | | | | |
| WG3715189-3 DUP | | L2697806-1 | | | | | | |
| Total Suspended Solids | | <0.5 | <0.5 | RPD-NA | mg/L | N/A | 20 | 08-APR-22 |
| WG3715189-2 LCS | | | | | | | | |
| Total Suspended Solids | | | 93.8 | | % | | 85-115 | 08-APR-22 |
| WG3715189-1 MB | | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 08-APR-22 |

Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| B | Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable. |
| DUP-H,J | Duplicate results outside ALS DQO, due to sample heterogeneity. Duplicate results and limits are expressed in terms of absolute difference. |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MB-LOR | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

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Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|---|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Colour, True | | | | | | | |
| | 1 | 05-APR-22 12:00 | 09-APR-22 12:45 | 3 | 4 | days | EHTL |
| | 2 | 05-APR-22 13:35 | 09-APR-22 12:45 | 3 | 4 | days | EHTL |
| | 3 | 05-APR-22 12:20 | 09-APR-22 12:45 | 3 | 4 | days | EHTL |
| | 4 | 05-APR-22 12:00 | 09-APR-22 12:45 | 3 | 4 | days | EHTL |
| | 5 | 05-APR-22 10:40 | 09-APR-22 12:45 | 3 | 4 | days | EHTL |
| | 6 | 05-APR-22 10:20 | 09-APR-22 12:45 | 3 | 4 | days | EHTR |
| | 7 | 05-APR-22 08:40 | 09-APR-22 12:45 | 3 | 4 | days | EHTR |
| | 8 | 05-APR-22 09:45 | 09-APR-22 12:45 | 3 | 4 | days | EHTR |
| | 9 | 05-APR-22 11:15 | 09-APR-22 12:45 | 3 | 4 | days | EHTL |
| | 10 | 05-APR-22 12:55 | 09-APR-22 12:45 | 3 | 4 | days | EHTL |
| | 11 | 05-APR-22 11:10 | 09-APR-22 12:45 | 3 | 4 | days | EHTL |
| | 12 | 05-APR-22 11:20 | 09-APR-22 12:45 | 3 | 4 | days | EHTL |
| | 13 | 05-APR-22 09:55 | 09-APR-22 12:45 | 3 | 4 | days | EHTR |
| | 14 | 05-APR-22 09:40 | 09-APR-22 12:45 | 3 | 4 | days | EHTR |
| | 15 | 05-APR-22 13:20 | 09-APR-22 13:25 | 3 | 4 | days | EHTL |
| | 16 | 05-APR-22 11:35 | 09-APR-22 13:25 | 3 | 4 | days | EHTL |
| Turbidity | | | | | | | |
| | 6 | 05-APR-22 10:20 | 09-APR-22 14:15 | 3 | 4 | days | EHTR |
| | 7 | 05-APR-22 08:40 | 09-APR-22 14:15 | 3 | 4 | days | EHTR |
| | 8 | 05-APR-22 09:45 | 09-APR-22 14:15 | 3 | 4 | days | EHTR |
| | 13 | 05-APR-22 09:55 | 09-APR-22 14:15 | 3 | 4 | days | EHTR |
| | 14 | 05-APR-22 09:40 | 09-APR-22 14:15 | 3 | 4 | days | EHTR |
| Leachable Anions & Nutrients | | | | | | | |
| Nitrate in Water by IC | | | | | | | |
| | 1 | 05-APR-22 12:00 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 2 | 05-APR-22 13:35 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 3 | 05-APR-22 12:20 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 4 | 05-APR-22 12:00 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 5 | 05-APR-22 10:40 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 6 | 05-APR-22 10:20 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 7 | 05-APR-22 08:40 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 8 | 05-APR-22 09:45 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 9 | 05-APR-22 11:15 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 10 | 05-APR-22 12:55 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 11 | 05-APR-22 11:10 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 12 | 05-APR-22 11:20 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 13 | 05-APR-22 09:55 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 14 | 05-APR-22 09:40 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 15 | 05-APR-22 13:20 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 16 | 05-APR-22 11:35 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| Nitrite in Water by IC | | | | | | | |
| | 1 | 05-APR-22 12:00 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 2 | 05-APR-22 13:35 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 3 | 05-APR-22 12:20 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 4 | 05-APR-22 12:00 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 5 | 05-APR-22 10:40 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 6 | 05-APR-22 10:20 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 7 | 05-APR-22 08:40 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 8 | 05-APR-22 09:45 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 9 | 05-APR-22 11:15 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 10 | 05-APR-22 12:55 | 11-APR-22 13:12 | 5 | 6 | days | EHT |

Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0
 Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|---|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Leachable Anions & Nutrients | | | | | | | |
| Nitrite in Water by IC | | | | | | | |
| | 11 | 05-APR-22 11:10 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 12 | 05-APR-22 11:20 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 13 | 05-APR-22 09:55 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 14 | 05-APR-22 09:40 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 15 | 05-APR-22 13:20 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| | 16 | 05-APR-22 11:35 | 11-APR-22 13:12 | 5 | 6 | days | EHT |
| Anions and Nutrients | | | | | | | |
| Filtr./Pres. for Carbons Subcontract | | | | | | | |
| | 6 | 05-APR-22 10:20 | 09-APR-22 17:00 | 3 | 4 | days | EHTR |
| | 7 | 05-APR-22 08:40 | 09-APR-22 17:00 | 3 | 4 | days | EHTR |
| | 8 | 05-APR-22 09:45 | 09-APR-22 17:00 | 3 | 4 | days | EHTR |
| | 13 | 05-APR-22 09:55 | 09-APR-22 17:00 | 3 | 4 | days | EHTR |
| | 14 | 05-APR-22 09:40 | 09-APR-22 17:00 | 3 | 4 | days | EHTR |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon for MISA | | | | | | | |
| | 1 | 05-APR-22 12:00 | 13-APR-22 00:00 | 3 | 8 | days | EHTL |
| | 2 | 05-APR-22 13:35 | 13-APR-22 00:00 | 3 | 7 | days | EHTL |
| | 3 | 05-APR-22 12:20 | 13-APR-22 00:00 | 3 | 7 | days | EHTL |
| | 4 | 05-APR-22 12:00 | 13-APR-22 00:00 | 3 | 8 | days | EHTL |
| | 5 | 05-APR-22 10:40 | 13-APR-22 00:00 | 3 | 8 | days | EHTL |
| | 6 | 05-APR-22 10:20 | 13-APR-22 00:00 | 3 | 8 | days | EHTR |
| | 7 | 05-APR-22 08:40 | 13-APR-22 00:00 | 3 | 8 | days | EHTR |
| | 8 | 05-APR-22 09:45 | 13-APR-22 00:00 | 3 | 8 | days | EHTR |
| | 9 | 05-APR-22 11:15 | 13-APR-22 00:00 | 3 | 8 | days | EHTL |
| | 10 | 05-APR-22 12:55 | 13-APR-22 00:00 | 3 | 7 | days | EHTL |
| | 11 | 05-APR-22 11:10 | 13-APR-22 00:00 | 3 | 8 | days | EHTL |
| | 12 | 05-APR-22 11:20 | 13-APR-22 00:00 | 3 | 8 | days | EHTL |
| | 13 | 05-APR-22 09:55 | 13-APR-22 00:00 | 3 | 8 | days | EHTR |
| | 14 | 05-APR-22 09:40 | 13-APR-22 00:00 | 3 | 8 | days | EHTR |
| | 15 | 05-APR-22 13:20 | 13-APR-22 00:00 | 3 | 7 | days | EHTL |
| | 16 | 05-APR-22 11:35 | 13-APR-22 00:00 | 3 | 8 | days | EHTL |

Legend & Qualifier Definitions:

- EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
- EHTR: Exceeded ALS recommended hold time prior to sample receipt.
- EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
- EHT: Exceeded ALS recommended hold time prior to analysis.
- Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2697806 were received on 08-APR-22 10:15.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 27 of 27

Contact: Garnet Cornell

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2697806-GOF

KC17 L2697806

CHAIN OF CUSTODY RECORD - ALS-446566868

~~L2697781~~ cancelled KC17

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 4/5/2022 4:29:00 PM COC Number: ALS-446566868 | | | | | | Containers SW Kit Ra-226 Bottle | | | | | | | | |
|--|-------|------|------|------------------|--------|--|----------------|--|--|--|--|--|----------------------|----------|
| | | | | | | Filtered N N | | | | | | | | |
| | | | | | | Preservatives | | | | | | | | |
| | | | | | | NG-SW-P-TB RA226-MIMER-BE | | | | | | | | |
| | | | | | | | | | | | | | | |
| Sample Code | DO | PH | TEMP | Date and Time | Matrix | NG-SW-P-TB | RA226-MIMER-BE | | | | | | Number of Containers | Comments |
| -1 FB_SW_20220405 | | | | 04/05/2022 12:00 | SW | X | | | | | | | 11 | |
| -2 SW02_SW_20220405 | 6.19 | 6.95 | 0.19 | 04/05/2022 13:35 | SW | X | | | | | | | 11 | |
| -3 SW03_SW_20220405 | 11.73 | 6.92 | 0.17 | 04/05/2022 12:20 | SW | X | | | | | | | 11 | |
| -4 SW06_SW_20220405 | | | | 04/05/2022 12:00 | SW | X | | | | | | | 11 | |
| -5 SW10_SW_20220405 | 12.51 | 7.37 | 0.37 | 04/05/2022 10:40 | SW | X | | | | | | | 11 | |
| -6 SW15_SW_20220405 | 10.91 | 6.75 | 1.07 | 04/05/2022 10:20 | SW | X | | | | | | | 11 | |

| | | | | | | | | | | | |
|------------------|--|--------------------------|--|-----------------------------|--|--|-------------|--|--|--|--|
| Signature | | Date/Time | | Shipping Details | | | ATTN | | Special Instructions: | | |
| Shipped by | | 4/5/2022 4:29:00 PM | | Method of Shipment: Courier | | | | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com | | |
| Received by | | KC17 8Apr 22 10:15 6.8°C | | On Ice: yes / no | | | | | | | |
| | | | | Shipped: Air/Ground | | | | | | | |
| | | | | Lab Name: ALS Thunder Bay | | | | | | | |
| | | | | Lab Phone: | | | | | | | |

KC17



L2697806-COFC

KC17

CHAIN OF CUSTODY RECORD - ALS-446566868

Project Name: Ra
 Location: Chapple
 Project Number:
 Project Manager:
 PO Number:
 Project:
 Turn Around Time (days): 10 Business Days
 Shipping Company:
 Shipping Date: 4/5/2022 4:29:00 PM
 COC Number: ALS-446566868

| Sample Code | DO | PH | TEMP | Date and Time | Matrix | Containers | | Filtered | Preservatives | Number of Containers | Comments |
|-----------------------|-------|------|------|------------------|--------|------------|---------------|----------|---------------|----------------------|----------|
| | | | | | | SW Kit | Ra-226 Bottle | | | | |
| -7 SW16_SW_20220405 | 16.63 | 6.72 | 1.77 | 04/05/2022 08:40 | SW | X | | N | | 11 | |
| -8 SW17_SW_20220405 | 10.07 | 6.57 | 1.75 | 04/05/2022 09:45 | SW | X | | N | | 11 | |
| -9 SW20_SW_20220405 | 9.37 | 7.21 | 0.02 | 04/05/2022 11:15 | SW | X | X | | | 12 | |
| -10 SW22A_SW_20220405 | 10.9 | 7.19 | 0 | 04/05/2022 12:55 | SW | X | X | | | 12 | |
| -11 SW23_SW_20220405 | 12.14 | 6.68 | 0.01 | 04/05/2022 11:10 | SW | X | X | | | 12 | |
| -12 SW24_SW_20220405 | 10.56 | 6.69 | 0.07 | 04/05/2022 11:20 | SW | X | X | | | 12 | |
| -13 SW25_SW_20220405 | 10.96 | 7.24 | 2.14 | 04/05/2022 09:55 | SW | X | | | | 11 | |

| | | | | | |
|-------------|---------------------------|---|--|------|--|
| Signature | Data/Time | Shipping Details | | ATTN | Special Instructions: |
| | | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Shipped by | 4/5/2022 4:29:00 PM | | | | |
| Received by | KC17 8 Apr 22 10:15 6.8°C | | | | |



L2697806-COFC

CHAIN OF CUSTODY RECORD - ALS-446566868

Project Name: R.
 Location: Chapple
 Project Number:
 Project Manager:
 PO Number:
 Project:
 Turn Around Time (days): 10 Business Days
 Shipping Company:
 Shipping Date: 4/5/2022 4:29:00 PM
 COC Number: ALS-446566868

| Containers | SW Kit | Re-226 Bottle | | | | | | | | | Number of Containers | Comments | |
|---------------------|------------|----------------|-------|------------------|--------|---|--|--|--|--|----------------------|----------|--|
| | Filtered | N | N | | | | | | | | | | |
| Preservatives | NG-SW-P-TB | RA226-MIMER-BE | | | | | | | | | | | |
| Sample Code | DO | PH | TEMP | Date and Time | Matrix | | | | | | | | |
| 4 SW26_SW_20220405 | 11.57 | 7.32 | 3.35 | 04/05/2022 09:40 | SW | X | | | | | | 11 | |
| 5 SW27_SW_20220405 | 12.57 | 6.98 | -0.11 | 04/05/2022 13:20 | SW | X | | | | | | 11 | |
| 6 SW28A_SW_20220405 | 10.7 | 7.21 | 1.27 | 04/05/2022 11:35 | SW | X | | | | | | 11 | |
| TB_SW_20220405 | | | | 04/05/2022 12:00 | SW | X | | | | | | 11 | |

Drinking Water (DW) Samples
(client use)

Sample Receipt Details (ALS use only)
 Cooling Method: None Ice Ice Packs Frozen Cooling Initiated

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|---------------------------|---|------|--|
| Shipped by | 4/5/2022 4:29:00 PM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | KC17 8 Apr 22 10:15 0.9°C | | | |

| |
|---|
| Are samples taken from a Regulated DW System? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Are samples for human consumption / use? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Samples from a Regulated DW System require an Authorized DW COC form |

| | | | | | | | |
|--|--|--|--|------------------------------|--|--|--|
| Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | |
| Cooler Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA Sample Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA | | | | | | | |
| Initial Cooler Temperatures °C | | | | Final Cooler Temperatures °C | | | |
| | | | | | | | |



L2697806-COFC

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|---------------------|---|------|--|
| Shipped by | 4/5/2022 4:29:00 PM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | | | | |



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 06-MAY-22
Report Date: 22-JUN-22 09:25 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2704046
Project P.O. #: 4500058071
Job Reference: SW KIT/ RA-226 BOTTLE
C of C Numbers:
Legal Site Desc:

<original signed by>

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-1 FB_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 0.6 | <DL | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | <0.50 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 5.83 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 8 | <DL | 10 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 0.12 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 0.8 | <DL | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.008 | <T | 0.0050 | mg/L | | 09-MAY-22 | R5775697 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.021 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 0.05 | <DL | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 11-MAY-22 | 11-MAY-22 | R5778461 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0008 | <DL | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000005 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000005 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.004 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000008 | <DL | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 0.070 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000006 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | <0.00002 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | <0.00005 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | <0.001 | <W | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00002 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | <0.0002 | <W | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-1 FB_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Magnesium (Mg)-Total | 0.0040 | <DL | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.00008 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.000005 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | <0.00002 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | <0.002 | <W | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | <0.002 | <W | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.000014 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000014 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 0.190 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | <0.0000005 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 0.075 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.00009 | <DL | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | <0.05 | <W | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000001 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.00004 | <DL | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.0000005 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | <0.00002 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0010 | <DL | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | <0.000004 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0010 | <DL | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000010 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | <0.000005 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.004 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | <0.0000002 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 0.040 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | <0.0000002 | <W | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00010 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | <0.00005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | <0.001 | <W | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | <0.00002 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|----------|-----------|-----------|----------|
| L2704046-1 FB_SW_20220503 Sampled By: Client on 03-MAY-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | <0.0005 | <W | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.000004 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | <0.000002 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 10-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 10-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.00006 | <DL | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | <0.05 | <W | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | <0.000001 | <W | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | <0.000004 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 06-MAY-22 | R5777386 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 09-MAY-22 | 10-MAY-22 | R5775742 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5778116 |
| L2704046-2 SW02_SW_20220503 Sampled By: Client on 03-MAY-22 @ 10:55 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.47 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 6.08 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 3.36 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 110 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 62.2 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 33.6 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.01 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 1.0 | <DL | 3.0 | mg/L | | 09-MAY-22 | R5775556 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-2 SW02_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 10:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Total Dissolved Solids | 68 | | 10 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 1.91 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.4 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 30.8 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.008 | <T | 0.0050 | mg/L | | 09-MAY-22 | R5775697 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 10-MAY-22 | |
| Chloride (Cl) | 0.25 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.028 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | 0.008 | <DL | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.521 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 0.55 | <T | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0002 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 11.7 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5777179 |
| Total Organic Carbon | 17.9 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.168 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000385 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.00540 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000008 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.006 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000050 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 7.86 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000170 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00012 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000070 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00065 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.189 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00010 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0004 | <DL | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 3.54 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.00224 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.000200 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-2 SW02_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 10:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Nickel (Ni)-Total | 0.00048 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 0.490 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00142 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000088 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 2.27 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000020 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 0.615 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0131 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 0.20 | <DL | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000030 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.00396 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.0000295 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00044 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0012 | <DL | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | <0.000004 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0910 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000385 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.00498 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | 0.000005 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.006 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000014 | <DL | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 7.71 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000052 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000048 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00055 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.125 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00006 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0004 | <DL | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 3.49 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00094 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2704046-2 SW02_SW_20220503 Sampled By: Client on 03-MAY-22 @ 10:55 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Molybdenum (Mo)-Dissolved | 0.000185 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00036 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 0.480 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.00115 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000128 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 2.13 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000015 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 0.610 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0134 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 0.15 | <DL | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000032 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00258 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.0000255 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00034 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0008 | <DL | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000232 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 06-MAY-22 | R5777386 |
| Chemical Oxygen Demand | 50 | | 10 | mg/L | 09-MAY-22 | 10-MAY-22 | R5775742 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| L2704046-3 SW03_SW_20220503 Sampled By: Client on 03-MAY-22 @ 12:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 5.03 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 6.75 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 5.35 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 76.6 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 196 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 86.4 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.50 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 148 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 5.81 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.8 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-3 SW03_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 12:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 69.8 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.008 | <T | 0.0050 | mg/L | | 09-MAY-22 | R5775697 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 10-MAY-22 | |
| Chloride (Cl) | 6.39 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.044 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | 0.052 | <T | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.669 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | 0.0042 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 17.7 | | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0002 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 19.4 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5777179 |
| Total Organic Carbon | 20.9 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.376 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000315 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000635 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.0157 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000020 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000015 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.014 | <T | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000172 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 22.2 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000428 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00048 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000200 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00300 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.368 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00016 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0028 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 8.38 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.00856 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.000985 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00158 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.028 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 2.45 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00251 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-3 SW03_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 12:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Selenium (Se)-Total | 0.000154 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 3.33 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000040 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 5.10 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0618 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 6.05 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000007 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000080 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.0122 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000012 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.000413 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00126 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0032 | <T | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000272 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0706 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000330 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000655 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.0139 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.012 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000102 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 21.3 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000056 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000098 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00260 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.120 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00006 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0024 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 8.07 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00564 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.000735 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00118 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.012 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 2.40 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2704046-3 SW03_SW_20220503 Sampled By: Client on 03-MAY-22 @ 12:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Rubidium (Rb)-Dissolved | 0.00191 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 2.64 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000005 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 4.82 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0616 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 5.85 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000054 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00422 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000010 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000382 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00062 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0022 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000448 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 06-MAY-22 | R5777386 |
| Chemical Oxygen Demand | 54 | | 10 | mg/L | 09-MAY-22 | 10-MAY-22 | R5775742 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| L2704046-4 SW06_SW_20220503 Sampled By: Client on 04-MAY-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 128 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 153 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 73.1 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.61 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 104 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 3.90 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.4 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 66.2 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.002 | <DL | 0.0050 | mg/L | | 09-MAY-22 | R5775697 |
| Chloride (Cl) | 3.43 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.042 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.443 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-4 SW06_SW_20220503 Sampled By: Client on 04-MAY-22 @ 12:00 Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Sulfate (SO4) | 6.30 | | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | 0.0011 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 14.4 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5777179 |
| Total Organic Carbon | 15.1 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.246 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000075 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000440 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.0120 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000012 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000015 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.008 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000110 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 17.9 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000310 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00028 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000106 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00135 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.242 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00016 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0012 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 6.98 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.00702 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.000465 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00082 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.016 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 1.12 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00141 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000104 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 2.48 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000035 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 2.12 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0374 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 2.05 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | 0.000010 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000006 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000058 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-4 SW06_SW_20220503 | | | | | | | |
| Sampled By: Client on 04-MAY-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.00764 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.000534 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00090 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0062 | <T | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000052 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0500 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000085 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000435 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.0108 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.008 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000064 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 17.7 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000028 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000056 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00110 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.088 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00006 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0012 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 7.00 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00474 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.000430 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00060 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.014 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 1.08 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.00103 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000142 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 2.09 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 2.08 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0383 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 2.10 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|----------|----------|-----------|-----------|----------|
| L2704046-4 SW06_SW_20220503 Sampled By: Client on 04-MAY-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thorium (Th)-Dissolved | 0.000044 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00256 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000521 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00050 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0054 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000300 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 07-MAY-22 | R5778700 |
| Chemical Oxygen Demand | 31 | | 10 | mg/L | 09-MAY-22 | 10-MAY-22 | R5775742 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| L2704046-5 SW10_SW_20220503 Sampled By: Client on 03-MAY-22 @ 14:35 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.35 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 6.11 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 6.38 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 149 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 105 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 50.8 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.37 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 6.5 | | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 96 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 10.3 | | 0.10 | NTU | | 06-MAY-22 | R5773643 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.6 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 45.2 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.008 | <T | 0.0050 | mg/L | | 09-MAY-22 | R5775697 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 10-MAY-22 | |
| Chloride (Cl) | 3.86 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.034 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | 0.010 | <DL | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.687 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | 0.0055 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 2.00 | <T | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-5 SW10_SW_20220503 Sampled By: Client on 03-MAY-22 @ 14:35 Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 20.3 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5777179 |
| Total Organic Carbon | 21.2 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.492 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000560 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.0116 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000024 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000015 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.010 | <T | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000136 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 12.3 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000692 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00068 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000228 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00130 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.550 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00026 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0018 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 5.45 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.0102 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.000360 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00130 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 1.21 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00217 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000114 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 3.04 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000040 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 2.55 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0284 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 0.75 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | 0.000015 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000008 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000074 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.0123 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-5 SW10_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 14:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Uranium (U)-Total | 0.000230 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00158 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0034 | <T | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000168 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.128 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000050 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000565 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.00946 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000014 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | 0.000005 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.010 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000074 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 11.7 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000064 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00030 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000082 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00105 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.175 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00008 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0016 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 5.25 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00560 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | 0.000005 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.000355 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00088 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.016 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 1.17 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.00122 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000158 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 2.40 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000015 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 2.51 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0281 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 0.75 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000070 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00600 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|----------|----------|-----------|-----------|----------|
| L2704046-5 SW10_SW_20220503 Sampled By: Client on 03-MAY-22 @ 14:35 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000203 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00078 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0024 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000500 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000143 | | 0.000020 | ug/L | 16-MAY-22 | 18-MAY-22 | R5785405 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 06-MAY-22 | R5777386 |
| Chemical Oxygen Demand | 49 | | 10 | mg/L | 09-MAY-22 | 10-MAY-22 | R5775742 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| L2704046-6 SW15_SW_20220503 Sampled By: Client on 03-MAY-22 @ 10:25 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 5.43 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 6.87 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 5.58 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 77.4 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 127 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 61.2 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.38 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 17.5 | | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 116 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 16.6 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.8 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 48.6 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.014 | <T | 0.0050 | mg/L | | 09-MAY-22 | R5775697 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 10-MAY-22 | |
| Chloride (Cl) | 2.24 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.035 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | 0.114 | <T | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.709 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | 0.0095 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 10.1 | | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0003 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | 0.0001 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-6 SW15_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 10:25 | | | | | | | |
| Matrix: SW | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 24.8 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5777179 |
| Total Organic Carbon | 26.0 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.581 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000175 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000715 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.0156 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000030 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000020 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.012 | <T | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000212 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 15.4 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000934 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00098 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000400 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00160 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.728 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00042 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0022 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 6.34 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.0210 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.000885 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00164 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.036 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 1.99 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00299 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000134 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 3.51 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000045 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 2.74 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0329 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 3.30 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000012 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000124 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.0193 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.000336 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00192 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-6 SW15_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 10:25 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Zinc (Zn)-Total | 0.0052 | <T | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000392 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0798 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000190 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000655 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.0114 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | 0.000005 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.010 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000118 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 14.6 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000032 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000112 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00100 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.165 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00012 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0020 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 6.01 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.0114 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.000470 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00078 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.030 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 1.86 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.00157 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000142 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 2.52 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 2.72 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0331 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 3.40 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000072 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00420 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000289 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|---------|----------|-----------|-----------|----------|
| L2704046-6 SW15_SW_20220503 Sampled By: Client on 03-MAY-22 @ 10:25 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Vanadium (V)-Dissolved | 0.00070 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0018 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000428 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 06-MAY-22 | R5777386 |
| Chemical Oxygen Demand | 57 | | 10 | mg/L | 09-MAY-22 | 10-MAY-22 | R5775742 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| L2704046-7 SW17_SW_20220503 Sampled By: Client on 03-MAY-22 @ 09:50 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 7 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 6.98 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 6.7 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 116 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 218 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 119 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.78 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 146 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 4.80 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.0 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 113 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.002 | <DL | 0.0050 | mg/L | | 09-MAY-22 | R5775697 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 10-MAY-22 | |
| Chloride (Cl) | 1.27 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.050 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | 0.012 | <DL | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.582 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | 0.0133 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 3.40 | <T | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0002 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 15.7 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5777179 |
| Total Organic Carbon | 16.6 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-7 SW17_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 09:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.233 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000060 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000475 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.0192 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000014 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.008 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000154 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 25.8 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000324 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00040 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000144 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00170 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.266 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00012 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0020 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 11.7 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.00652 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.000325 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00140 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 1.86 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00157 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000190 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 4.47 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000040 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 1.59 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0446 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 1.25 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000050 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.00836 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000008 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.000483 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00132 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0042 | <T | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000160 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-7 SW17_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 09:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0282 | <T | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000065 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000460 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.0187 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | 0.000005 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.006 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000090 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 26.6 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000012 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000050 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00145 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.047 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0020 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 12.7 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00182 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.000295 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00108 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.028 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 1.80 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.000942 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000234 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 4.25 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 1.59 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0484 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 1.20 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000038 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00196 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000514 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00090 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0040 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000416 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|---------|----------|-----------|-----------|----------|
| L2704046-7 SW17_SW_20220503 Sampled By: Client on 03-MAY-22 @ 09:50 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 06-MAY-22 | R5777386 |
| Chemical Oxygen Demand | 35 | | 10 | mg/L | 09-MAY-22 | 10-MAY-22 | R5775742 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| L2704046-8 SW20_SW_20220503 Sampled By: Client on 03-MAY-22 @ 14:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 9.75 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 6.21 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 7.37 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 121 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 107 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 49.6 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.36 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 5.5 | | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 88 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 8.54 | | 0.10 | NTU | | 06-MAY-22 | R5773643 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.6 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 44.4 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.004 | <DL | 0.0050 | mg/L | | 09-MAY-22 | R5775697 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 10-MAY-22 | |
| Chloride (Cl) | 4.81 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.033 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | 0.018 | <DL | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.556 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 1.95 | <T | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 18.9 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5777179 |
| Total Organic Carbon | 19.6 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.436 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000535 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-8 SW20_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 14:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Barium (Ba)-Total | 0.0115 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000020 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000015 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.010 | <T | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000124 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 11.7 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000540 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00056 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000194 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00120 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.466 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00026 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0016 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 5.15 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.00954 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.000385 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00118 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.020 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 1.09 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00210 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000116 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 3.00 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000040 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 3.28 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0282 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 0.70 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | 0.000005 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000008 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000054 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.0103 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.000187 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00138 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0048 | <T | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000076 | <DL | 0.00020 | mg/L | | 10-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.152 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000055 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-8 SW20_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 14:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Arsenic (As)-Dissolved | 0.000460 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.00958 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.010 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000078 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 11.6 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000088 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00030 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000086 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00085 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.178 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00010 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0014 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 5.01 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00600 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.000350 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00084 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.012 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 1.05 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.00119 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000156 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 2.52 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000035 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 3.29 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0283 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 0.70 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000068 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00670 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000162 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00078 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0028 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | <0.00060 | DLUI | 0.00060 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 06-MAY-22 | R5777386 |
| Chemical Oxygen Demand | 42 | | 10 | mg/L | 09-MAY-22 | 10-MAY-22 | R5775742 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L2704046-8 SW20_SW_20220503 Sampled By: Client on 03-MAY-22 @ 14:10 Matrix: SW | | | | | | | |
| Aggregate Organics | | | | | | | |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| Radiological Parameters | | | | | | | |
| Ra-226 | 0.0062 | | 0.0057 | Bq/L | 01-JUN-22 | 11-JUN-22 | R5770601 |
| L2704046-9 SW21A_SW_20220503 Sampled By: Client on 04-MAY-22 @ 10:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 6.06 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 6.89 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 6.48 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 118 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 138 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 67.7 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.40 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 102 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 6.92 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.8 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 56.2 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.008 | <T | 0.0050 | mg/L | | 09-MAY-22 | R5775697 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 10-MAY-22 | |
| Chloride (Cl) | 4.15 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.041 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | 0.086 | <T | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.716 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | 0.0063 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 5.90 | | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0002 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | 0.0010 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 19.9 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5777179 |
| Total Organic Carbon | 20.1 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.348 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000080 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000610 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.0139 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-9 SW21A_SW_20220503 | | | | | | | |
| Sampled By: Client on 04-MAY-22 @ 10:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Beryllium (Be)-Total | 0.000018 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.014 | <T | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000098 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 15.9 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000440 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00046 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000164 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00140 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.425 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00018 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0020 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 6.75 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.0100 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.000555 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00128 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.028 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 1.39 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00190 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000144 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 2.52 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000030 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 3.09 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0435 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 2.05 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000007 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000068 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.0102 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000008 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.000259 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00134 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0038 | <T | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000208 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0850 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000085 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000625 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-9 SW21A_SW_20220503 | | | | | | | |
| Sampled By: Client on 04-MAY-22 @ 10:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Barium (Ba)-Dissolved | 0.0122 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000014 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | 0.000005 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.012 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000070 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 16.1 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000058 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00024 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000076 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00105 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.175 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00006 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0020 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 6.70 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00790 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.000530 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00094 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 1.38 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.00111 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000170 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 2.01 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 3.05 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0421 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 2.05 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000068 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00510 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000010 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000251 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00078 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0012 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000500 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 07-MAY-22 | R5778700 |
| Chemical Oxygen Demand | 48 | | 10 | mg/L | 09-MAY-22 | 10-MAY-22 | R5775742 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2704046-10 SW22A_SW_20220503 | | | | | | | |
| Sampled By: Client on 04-MAY-22 @ 09:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 6.47 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 6.93 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 5.57 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 107 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 212 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 90.2 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.51 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 154 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 6.94 | | 0.10 | NTU | | 06-MAY-22 | R5773643 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.4 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 59.6 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.024 | <T | 0.0050 | mg/L | | 16-MAY-22 | R5782200 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 17-MAY-22 | |
| Chloride (Cl) | 5.32 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.044 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | 0.140 | <T | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.739 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | 0.0040 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 34.4 | | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | 0.0011 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 18.3 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5777179 |
| Total Organic Carbon | 19.1 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.453 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.00106 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000610 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.0160 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000020 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.020 | <T | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000092 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 24.3 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000624 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00058 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-10 SW22A_SW_20220503 | | | | | | | |
| Sampled By: Client on 04-MAY-22 @ 09:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Cobalt (Co)-Total | 0.000240 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00165 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.446 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00020 | <T | 0.000050 | mg/L | | 10-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0028 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 7.75 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.0117 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.00125 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00120 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 5.22 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00382 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000178 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 2.78 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000035 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 10.9 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0796 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 16.6 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | 0.000010 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000007 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000090 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.0156 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000016 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.000425 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00156 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0024 | <DL | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000336 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0658 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000935 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000640 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.0145 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.018 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000054 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 23.5 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000138 | | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-10 SW22A_SW_20220503 Sampled By: Client on 04-MAY-22 @ 09:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000126 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00135 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.147 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00038 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0028 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 7.64 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00774 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.00109 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00090 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.018 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 4.55 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.00273 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000164 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 1.89 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 9.99 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0755 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 14.8 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000060 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00390 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000012 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000377 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00068 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0014 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000532 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 07-MAY-22 | R5778700 |
| Chemical Oxygen Demand | 45 | | 10 | mg/L | 09-MAY-22 | 10-MAY-22 | R5775742 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| Radiological Parameters | | | | | | | |
| Ra-226 | 0.0078 | | 0.0047 | Bq/L | 01-JUN-22 | 11-JUN-22 | R5770601 |
| L2704046-11 SW23_SW_20220503 Sampled By: Client on 03-MAY-22 @ 11:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 7.37 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 6.65 | | 0.10 | pH | | 08-MAY-22 | R5773969 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2704046-11 SW23_SW_20220503 Sampled By: Client on 03-MAY-22 @ 11:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Temperature, Client Supplied | 3.79 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 128 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 129 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 60.9 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.38 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 4.0 | | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 114 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 6.06 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.4 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 47.6 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.012 | <T | 0.0050 | mg/L | | 16-MAY-22 | R5782200 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 17-MAY-22 | |
| Chloride (Cl) | 2.86 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.038 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | 0.052 | <T | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.841 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | 0.0045 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 10.9 | | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0003 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 21.8 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5777179 |
| Total Organic Carbon | 22.6 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.374 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000215 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000610 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.0120 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000020 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.012 | <T | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000144 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 14.3 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000444 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00050 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000190 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00300 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-11 SW23_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 11:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Iron (Fe)-Total | 0.425 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00018 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0016 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 6.03 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.00968 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.000455 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00250 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.028 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 1.82 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00230 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000126 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 3.03 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000055 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 3.19 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0363 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 3.60 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000007 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000078 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.0116 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000008 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.000193 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00128 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0026 | <DL | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000196 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0994 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000210 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000590 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.0104 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | 0.000005 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.012 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000092 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 14.6 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000056 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00022 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000090 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2704046-11 SW23_SW_20220503 Sampled By: Client on 03-MAY-22 @ 11:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Copper (Cu)-Dissolved | 0.00100 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.164 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00008 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0020 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 5.92 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00608 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.000460 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00078 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.018 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 1.77 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.00165 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000168 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 2.50 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 3.20 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0358 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 3.60 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | 0.000005 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000060 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | 0.00001 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00444 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000169 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00066 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0016 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000472 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 06-MAY-22 | R5777386 |
| Chemical Oxygen Demand | 54 | | 10 | mg/L | 09-MAY-22 | 10-MAY-22 | R5775742 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0073 | | 0.0073 | Bq/L | 01-JUN-22 | 11-JUN-22 | R5770601 |
| L2704046-12 SW24_SW_20220503 Sampled By: Client on 03-MAY-22 @ 11:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 7.14 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 6.86 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 5.52 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-12 SW24_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 11:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 127 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 136 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 61.9 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.42 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 4.0 | | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 114 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 7.32 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.6 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 50.4 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.016 | <T | 0.0050 | mg/L | | 16-MAY-22 | R5782200 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 17-MAY-22 | |
| Chloride (Cl) | 2.91 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.040 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | 0.076 | <T | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.649 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | 0.0061 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 12.0 | | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 21.5 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5778383 |
| Total Organic Carbon | 23.1 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.377 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000225 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000690 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.0126 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000016 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.012 | <T | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000132 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 15.7 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000480 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00042 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000202 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00150 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.419 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00022 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-12 SW24_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 11:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Lithium (Li)-Total | 0.0018 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 5.99 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.00886 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.000520 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00116 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 2.04 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00242 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000130 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 3.13 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000035 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 3.47 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0374 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 3.90 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | 0.000015 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000008 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000084 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.0115 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.000509 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00126 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0044 | <T | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000252 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0862 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000230 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000655 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.0110 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.010 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000124 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 14.8 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000052 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00022 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000090 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00125 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.151 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2704046-12 SW24_SW_20220503 Sampled By: Client on 03-MAY-22 @ 11:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lead (Pb)-Dissolved | 0.00008 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0016 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 6.08 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00516 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.000475 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00076 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.028 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 2.04 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.00165 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000148 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 2.48 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 3.33 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0372 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 3.90 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000062 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00440 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000500 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00064 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0034 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000384 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 06-MAY-22 | R5777386 |
| Chemical Oxygen Demand | 48 | | 10 | mg/L | 09-MAY-22 | 10-MAY-22 | R5775742 |
| Oil and Grease, Total | 1.8 | | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0074 | | 0.0074 | Bq/L | 01-JUN-22 | 11-JUN-22 | R5770601 |
| L2704046-13 SW25_SW_20220503 Sampled By: Client on 03-MAY-22 @ 08:55 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.09 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 6.72 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 4.87 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 92.3 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 103 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-13 SW25_SW_20220503 Sampled By: Client on 03-MAY-22 @ 08:55 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Hardness (as CaCO3) | 53.1 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 4.27 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 2.0 | <DL | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 86 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 4.56 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.0 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 6.8 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.008 | <T | 0.0050 | mg/L | | 16-MAY-22 | R5782200 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 17-MAY-22 | |
| Chloride (Cl) | 3.10 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.035 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | 0.014 | <DL | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.498 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 1.85 | <T | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0002 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 16.4 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5778383 |
| Total Organic Carbon | 17.2 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.311 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000050 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000410 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.00904 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000016 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.006 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000130 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 13.2 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000398 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00038 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000116 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00130 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.290 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00016 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0006 | <DL | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 5.05 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-13 SW25_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 08:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Manganese (Mn)-Total | 0.00682 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.000325 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00072 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.014 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 0.780 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00153 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000102 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 2.75 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000035 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 1.22 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0232 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 0.60 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | 0.000010 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000006 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000058 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.00890 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.000242 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00092 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0046 | <T | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000192 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0824 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000045 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000395 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.00776 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.006 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000052 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 12.9 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000062 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00050 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000060 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00105 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.117 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00008 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0006 | <DL | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2704046-13 SW25_SW_20220503 Sampled By: Client on 03-MAY-22 @ 08:55 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Magnesium (Mg)-Dissolved | 5.09 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00436 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.000315 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00054 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.018 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 0.760 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.00106 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000114 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 2.26 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 1.25 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0237 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 0.60 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000046 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00362 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000224 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00044 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0038 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000296 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 06-MAY-22 | R5777386 |
| Chemical Oxygen Demand | 37 | | 10 | mg/L | 09-MAY-22 | 10-MAY-22 | R5775742 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| L2704046-14 SW26_SW_20220503 Sampled By: Client on 03-MAY-22 @ 10:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 13.93 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 6.62 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 4 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 92.7 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 0.4 | <DL | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 54.4 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.59 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 2.0 | <DL | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 90 | | 13 | mg/L | | 09-MAY-22 | R5775596 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-14 SW26_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 10:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Turbidity | 5.26 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.8 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 52.8 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | 0.008 | <T | 0.0050 | mg/L | | 16-MAY-22 | R5782200 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 17-MAY-22 | |
| Chloride (Cl) | 2.55 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.035 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | 0.014 | <DL | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.403 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 2.45 | <T | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 16.5 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5778383 |
| Total Organic Carbon | 16.9 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.318 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000055 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000390 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.00942 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000016 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.006 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000076 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 13.3 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000392 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00044 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000124 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00135 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.312 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00016 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0006 | <DL | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 5.15 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.00644 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774658 |
| Molybdenum (Mo)-Total | 0.000335 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00084 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-14 SW26_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 10:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Phosphorus (P)-Total | 0.018 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 0.824 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00160 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000104 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 2.70 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000040 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 1.30 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0264 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 0.85 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000006 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000062 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.00924 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.000269 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00100 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0046 | <T | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000056 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0780 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000055 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000410 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.00822 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.006 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000052 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 13.1 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000050 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00022 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000054 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00105 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.113 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00006 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0006 | <DL | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 5.29 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00346 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.000335 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2704046-14 SW26_SW_20220503 Sampled By: Client on 03-MAY-22 @ 10:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Nickel (Ni)-Dissolved | 0.00052 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 0.786 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.000952 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000120 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 2.25 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000015 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 1.30 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0264 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 0.85 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | 0.000005 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000052 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00374 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000250 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00046 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0040 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000372 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 06-MAY-22 | R5777386 |
| Chemical Oxygen Demand | 36 | | 10 | mg/L | 09-MAY-22 | 11-MAY-22 | R5777387 |
| Oil and Grease, Total | 1.0 | | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| L2704046-15 SW27_SW_20220503 Sampled By: Client on 04-MAY-22 @ 14:50 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.8 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 7.16 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 9.76 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 76.3 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 152 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 74.6 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.68 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 2.0 | <DL | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 110 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 4.03 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.6 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 70.6 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-15 SW27_SW_20220503 | | | | | | | |
| Sampled By: Client on 04-MAY-22 @ 14:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 09-MAY-22 | R5775697 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 10-MAY-22 | |
| Chloride (Cl) | 3.41 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.041 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.471 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 6.35 | | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 14.4 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5778383 |
| Total Organic Carbon | 15.1 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.257 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000080 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000415 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.0117 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000008 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.008 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000090 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 18.9 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000314 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00026 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000108 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00135 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.244 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00016 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0014 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 7.00 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.00696 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774723 |
| Molybdenum (Mo)-Total | 0.000445 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00078 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.022 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 1.11 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00150 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000112 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-15 SW27_SW_20220503 | | | | | | | |
| Sampled By: Client on 04-MAY-22 @ 14:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Silicon (Si)-Total | 2.46 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000045 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 2.09 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0382 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 2.05 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | 0.000015 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000056 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.00848 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.000554 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00094 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0046 | <T | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000140 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0530 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000080 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000425 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.0109 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.008 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000062 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 18.3 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000038 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000056 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00115 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.090 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00006 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0014 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 7.05 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00476 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.000465 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00060 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.004 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 1.10 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.00103 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2704046-15 SW27_SW_20220503 Sampled By: Client on 04-MAY-22 @ 14:50 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Selenium (Se)-Dissolved | 0.000138 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 2.06 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000015 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 2.15 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0377 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 2.05 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000040 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00280 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000527 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00052 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0046 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000268 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 07-MAY-22 | R5778700 |
| Chemical Oxygen Demand | 39 | | 10 | mg/L | 09-MAY-22 | 11-MAY-22 | R5777387 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| L2704046-16 SW28A_SW_20220503 Sampled By: Client on 03-MAY-22 @ 15:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 10.7 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 6.05 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 8.3 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 118 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 85.2 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 44.5 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.30 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 80 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 4.53 | | 0.10 | NTU | | 06-MAY-22 | R5773643 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.8 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 38.8 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 09-MAY-22 | R5775697 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 10-MAY-22 | |
| Chloride (Cl) | 1.61 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | 0.030 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-16 SW28A_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 15:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Nitrate (as N) | 0.006 | <DL | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.529 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | 1.35 | <T | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | 0.0004 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 19.1 | | 0.50 | mg/L | 06-MAY-22 | 11-MAY-22 | R5778383 |
| Total Organic Carbon | 20.0 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.270 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000450 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.00830 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.008 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000064 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 9.68 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000396 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00036 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000122 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.00075 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.344 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00016 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | 0.0010 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 5.00 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.00950 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774723 |
| Molybdenum (Mo)-Total | 0.000265 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00078 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.016 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 0.744 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00212 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000098 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 2.38 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000025 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 0.825 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0211 | | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-16 SW28A_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 15:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Sulfur (S)-Total | 0.50 | | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000006 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000058 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.00664 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.000141 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00090 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0022 | <DL | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | 0.000084 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0902 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000470 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.00710 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.008 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000056 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 9.86 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000058 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000056 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.00055 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.170 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00006 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | 0.0012 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 4.83 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00504 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774776 |
| Molybdenum (Mo)-Dissolved | 0.000260 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00054 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 0.708 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.00152 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000124 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 2.06 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 0.830 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2704046-16 SW28A_SW_20220503 Sampled By: Client on 03-MAY-22 @ 15:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Strontium (Sr)-Dissolved | 0.0209 | | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 0.50 | | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | 0.000038 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00338 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.000121 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00048 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0014 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000288 | <T | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 06-MAY-22 | R5777386 |
| Chemical Oxygen Demand | 53 | | 10 | mg/L | 09-MAY-22 | 11-MAY-22 | R5777387 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| L2704046-17 SW29_SW_20220503 Sampled By: Client on 03-MAY-22 @ 13:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 2.52 | | 0 | mg/L | | 08-MAY-22 | R5773969 |
| pH, Client Supplied | 7.1 | | 0.10 | pH | | 08-MAY-22 | R5773969 |
| Temperature, Client Supplied | 4.26 | | 0 | Degree C | | 08-MAY-22 | R5773969 |
| Physical Tests | | | | | | | |
| Color, True | 228 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 129 | | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | 73.7 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 7.65 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | 1.0 | <DL | 3.0 | mg/L | | 09-MAY-22 | R5775556 |
| Total Dissolved Solids | 128 | | 13 | mg/L | | 09-MAY-22 | R5775596 |
| Turbidity | 1.25 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.4 | <DL | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | 67.8 | | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 09-MAY-22 | R5775697 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 10-MAY-22 | |
| Chloride (Cl) | 1.03 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | 0.723 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-17 SW29_SW_20220503 Sampled By: Client on 03-MAY-22 @ 13:00 Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Sulfate (SO4) | 0.85 | <T | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0002 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 36.7 | DLM | 2.5 | mg/L | 06-MAY-22 | 11-MAY-22 | R5778383 |
| Total Organic Carbon | 34.6 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0996 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000050 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000885 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.0106 | | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000005 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | 0.006 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000160 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | 26.0 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000262 | | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | 0.00008 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000236 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | 0.0182 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | 0.224 | | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | 0.00004 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | <0.0002 | <W | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 1.97 | | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | 0.00640 | | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5774723 |
| Molybdenum (Mo)-Total | 0.000170 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | 0.00340 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.016 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | 0.952 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.00224 | | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000178 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 1.73 | | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000040 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 0.625 | | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.0162 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | 0.45 | <DL | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000009 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000026 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-17 SW29_SW_20220503 | | | | | | | |
| Sampled By: Client on 03-MAY-22 @ 13:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tin (Sn)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | 0.00238 | | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | 0.0000670 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | 0.00054 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | 0.0022 | <DL | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | <0.000004 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0762 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | 0.000050 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | 0.000915 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | 0.0103 | | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | 0.006 | <DL | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000162 | <T | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | 26.3 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | 0.0000232 | | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00018 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | 0.000162 | <T | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | 0.0174 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | 0.179 | | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | 1.96 | | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | 0.00498 | | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774777 |
| Molybdenum (Mo)-Dissolved | 0.000160 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | 0.00304 | <T | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | 0.012 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | 0.924 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | 0.00213 | | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | 0.000212 | <T | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | 1.68 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | 0.595 | | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | 0.0156 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | 0.35 | <DL | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000005 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2704046-17 SW29_SW_20220503 Sampled By: Client on 03-MAY-22 @ 13:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thorium (Th)-Dissolved | 0.000024 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | 0.00156 | | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | 0.0000565 | <T | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | 0.00042 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | 0.0026 | <T | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | 0.000160 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 06-MAY-22 | R5777386 |
| Chemical Oxygen Demand | 93 | | 10 | mg/L | 09-MAY-22 | 11-MAY-22 | R5777387 |
| Oil and Grease, Total | 2.0 | | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| L2704046-18 TB_SW_20220503 Sampled By: Client on 04-MAY-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 06-MAY-22 | R5773618 |
| Conductivity (EC) | 0.4 | <DL | 1.0 | uS/cm | | 06-MAY-22 | R5774862 |
| Hardness (as CaCO3) | <0.50 | | 0.50 | mg/L | | 10-MAY-22 | |
| pH | 4.98 | | 0.10 | pH | | 06-MAY-22 | R5774862 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 10-MAY-22 | R5777137 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 09-MAY-22 | R5775817 |
| Turbidity | 0.12 | | 0.10 | NTU | | 06-MAY-22 | R5773476 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 09-MAY-22 | R5774977 |
| Alkalinity, Total (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 06-MAY-22 | R5774862 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 11-MAY-22 | R5777538 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 06-MAY-22 | 06-MAY-22 | R5774496 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 06-MAY-22 | R5774496 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 06-MAY-22 | R5774496 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 09-MAY-22 | 10-MAY-22 | R5777507 |
| Orthophosphate-Dissolved (as P) | <0.0030 | | 0.0030 | mg/L | 06-MAY-22 | 09-MAY-22 | R5774558 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 06-MAY-22 | R5774496 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 09-MAY-22 | R5775781 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 11-MAY-22 | 11-MAY-22 | R5778461 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 12-MAY-22 | R5779463 |
| Total Metals | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-18 TB_SW_20220503 | | | | | | | |
| Sampled By: Client on 04-MAY-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | <0.0002 | <W | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Antimony (Sb)-Total | 0.000005 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Arsenic (As)-Total | 0.000005 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Barium (Ba)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Beryllium (Be)-Total | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Bismuth (Bi)-Total | 0.000005 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Boron (B)-Total | <0.002 | <W | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Cadmium (Cd)-Total | 0.0000006 | <DL | 0.0000050 | mg/L | | 09-MAY-22 | R5774622 |
| Calcium (Ca)-Total | <0.005 | <W | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Cesium (Cs)-Total | 0.0000006 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Chromium (Cr)-Total | <0.00002 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Cobalt (Co)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Copper (Cu)-Total | <0.00005 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Iron (Fe)-Total | <0.001 | <W | 0.010 | mg/L | | 09-MAY-22 | R5774622 |
| Lead (Pb)-Total | <0.00002 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Lithium (Li)-Total | <0.0002 | <W | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Magnesium (Mg)-Total | 0.0005 | <DL | 0.0050 | mg/L | | 09-MAY-22 | R5774622 |
| Manganese (Mn)-Total | <0.00002 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774723 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Nickel (Ni)-Total | <0.00002 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Phosphorus (P)-Total | 0.004 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Potassium (K)-Total | <0.002 | <W | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Rubidium (Rb)-Total | 0.000008 | <DL | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Selenium (Se)-Total | 0.000018 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Silicon (Si)-Total | 0.006 | <DL | 0.10 | mg/L | | 09-MAY-22 | R5774622 |
| Silver (Ag)-Total | 0.0000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5774622 |
| Sodium (Na)-Total | 0.010 | <DL | 0.050 | mg/L | | 09-MAY-22 | R5774622 |
| Strontium (Sr)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 09-MAY-22 | R5774622 |
| Sulfur (S)-Total | <0.05 | <W | 0.50 | mg/L | | 09-MAY-22 | R5774622 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Thallium (Tl)-Total | 0.000001 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Thorium (Th)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Titanium (Ti)-Total | <0.00002 | <W | 0.00030 | mg/L | | 09-MAY-22 | R5774622 |
| Tungsten (W)-Total | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5774622 |
| Uranium (U)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 09-MAY-22 | R5774622 |
| Vanadium (V)-Total | <0.00002 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5774622 |
| Zinc (Zn)-Total | <0.0002 | <W | 0.0030 | mg/L | | 09-MAY-22 | R5774622 |
| Zirconium (Zr)-Total | <0.000004 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5774622 |
| Dissolved Metals | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2704046-18 TB_SW_20220503 | | | | | | | |
| Sampled By: Client on 04-MAY-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 09-MAY-22 | R5774867 |
| Aluminum (Al)-Dissolved | 0.0006 | <DL | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Arsenic (As)-Dissolved | <0.000005 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Barium (Ba)-Dissolved | <0.00002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Bismuth (Bi)-Dissolved | 0.000010 | <DL | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Boron (B)-Dissolved | <0.002 | <W | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Cadmium (Cd)-Dissolved | 0.0000014 | <DL | 0.0000050 | mg/L | | 09-MAY-22 | R5775419 |
| Calcium (Ca)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Cesium (Cs)-Dissolved | <0.0000002 | <W | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Chromium (Cr)-Dissolved | 0.00010 | <DL | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Copper (Cu)-Dissolved | <0.00005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Iron (Fe)-Dissolved | <0.001 | <W | 0.010 | mg/L | | 09-MAY-22 | R5775419 |
| Lead (Pb)-Dissolved | <0.00002 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Magnesium (Mg)-Dissolved | <0.0005 | <W | 0.0050 | mg/L | | 09-MAY-22 | R5775419 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 09-MAY-22 | R5774777 |
| Molybdenum (Mo)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Phosphorus (P)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Potassium (K)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Selenium (Se)-Dissolved | <0.000002 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Silicon (Si)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.000050 | mg/L | | 09-MAY-22 | R5775419 |
| Sodium (Na)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 09-MAY-22 | R5775419 |
| Strontium (Sr)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Sulfur (S)-Dissolved | <0.05 | <W | 0.50 | mg/L | | 09-MAY-22 | R5775419 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |
| Thallium (Tl)-Dissolved | 0.000001 | <DL | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Thorium (Th)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.00030 | mg/L | | 09-MAY-22 | R5775419 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 09-MAY-22 | R5775419 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 09-MAY-22 | R5775419 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 09-MAY-22 | R5775419 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0010 | mg/L | | 09-MAY-22 | R5775419 |
| Zirconium (Zr)-Dissolved | <0.000004 | <W | 0.00020 | mg/L | | 09-MAY-22 | R5775419 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|------|-------|-----------|-----------|----------|
| L2704046-18 TB_SW_20220503 Sampled By: Client on 04-MAY-22 @ 12:00 Matrix: SW Dissolved Metals Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 07-MAY-22 | R5778700 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 09-MAY-22 | 11-MAY-22 | R5777387 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 12-MAY-22 | 12-MAY-22 | R5779462 |
| | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------|-----------------------|-----------|---|
| Method Blank | Ammonia, Total (as N) | MB-LOR | L2704046-18 |
| Matrix Spike | Total Organic Carbon | MS-B | L2704046-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| DLM | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |
| DLUI | Detection Limit Raised: Unknown Interference generated an apparent false positive test result. |
| MB-LOR | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|----------|---|--|
| ACY-MISA-TB | Effluent | Acidity (as CaCO ₃) | APHA 2310 B-POTENTIOMETRIC TITRATION |
| Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample. | | | |
| ALK-MISA-TB | Effluent | Alkalinity, Total (as CaCO ₃) | APHA 2320 B-Auto-Pot. Titration |
| This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. | | | |
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
| All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation. | | | |
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
| This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis. | | | |
| CN-T-MISA-CFA-WT | Effluent | Total Cyanide by CFA | ISO 14403-2:2012 (modified) |
| This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. | | | |
| Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero. | | | |
| CN-WAD-MISA-CFA-WT | Effluent | Weak Acid Dissociable Cyanide by CFA | APHA 4500-CN CYANIDE (modified) |
| This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis. | | | |
| COD-TB | Water | Chemical Oxygen Demand | APHA 5220D |
| This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method. | | | |
| COLOUR-TB | Water | Colour, True | APHA 2120 C |
| True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard. | | | |
| DO-CLIENT-TB | Water | Dissolved Oxygen, Client Supplied | Result supplied by Client |
| DOC-WT | Effluent | Dissolved Organic Carbon for MISA | APHA 5310 B-Instrumental |
| EC-MISA-TB | Effluent | Conductivity (EC) | APHA 2510 B-ELECTRODE |
| This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity | | | |

Reference Information

electrode.

| | | | |
|-----------|-------|-------------------------|-----------------|
| F-IC-N-TB | Water | Fluoride in Water by IC | EPA 300.1 (mod) |
|-----------|-------|-------------------------|-----------------|

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

| | | | |
|------------------|-------|----------|-------------|
| HARDNESS-CALC-WT | Water | Hardness | APHA 2340 B |
|------------------|-------|----------|-------------|

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO₃ equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

| | | | |
|-----------|----------|---------------------------------|-------------|
| HG-DIS-WT | Effluent | Mercury (Hg)-Dissolved for MISA | SW846 7470A |
|-----------|----------|---------------------------------|-------------|

| | | | |
|-----------|----------|-----------------------------|-------------|
| HG-TOT-WT | Effluent | Mercury (Hg)-Total for MISA | SW846 7470A |
|-----------|----------|-----------------------------|-------------|

| | | | |
|----------------|-------|---------------------------------------|----------------|
| MEHG-T-GCAF-VA | Water | Total Methylmercury in Water by GCAFS | EPA 1630 (mod) |
|----------------|-------|---------------------------------------|----------------|

This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".

| | | | |
|------------------|----------|--|-----------|
| MET-D-MISA-MS-WT | Effluent | Diss. Metals in Effluent by ICPMS (MISA) | EPA 200.8 |
|------------------|----------|--|-----------|

The concentration of metals determined on an filtered effluent sample for the MISA regulation. The samples are analyzed directly (undigested) by ICP-MS.

| | | | |
|------------------|----------|-----------------------|-----------|
| MET-T-MISA-MS-WT | Effluent | Total Metals by ICPMS | EPA 200.8 |
|------------------|----------|-----------------------|-----------|

The concentration of metals determined on an unfiltered effluent sample for the MISA regulation. The samples are digested in acid and analyzed by ICP-MS.

| | | | |
|---------------|----------|------------------------------|--|
| NH3-MISA-F-TB | Effluent | Ammonia by Discrete Analyzer | catnr 157/158 062217/99321057 (modified) |
|---------------|----------|------------------------------|--|

Ammonia is determined by Flow-injection analysis with fluorescence detection

| | | | |
|-------------------|----------|--------------------|-------------|
| NH3-UNION-CALC-TB | Effluent | Un-ionized ammonia | Calculation |
|-------------------|----------|--------------------|-------------|

| | | | |
|----------------|----------|------------------------|-----------------|
| NO2-MISA-IC-TB | Effluent | Nitrite in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|----------------|----------|------------------------|-----------------|
| NO3-MISA-IC-TB | Effluent | Nitrate in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|------------|----------|--------------------------------|--------------------------------|
| OGG-TOT-WT | Effluent | Oil and Grease, Total for MISA | APHA 5520 B-Hexane Gravimetric |
|------------|----------|--------------------------------|--------------------------------|

| | | | |
|--------------|-------|----|---------------------------|
| PH-CLIENT-TB | Water | pH | Result supplied by Client |
|--------------|-------|----|---------------------------|

| | | | |
|------------|----------|----|-----------------------|
| PH-MISA-TB | Effluent | pH | APHA 4500-H-ELECTRODE |
|------------|----------|----|-----------------------|

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

| | | | |
|---------------|-------|--------------------------|--------------------------------|
| PO4-DO-COL-TB | Water | Dissolved Orthophosphate | APHA 4500-P B, F, G (modified) |
|---------------|-------|--------------------------|--------------------------------|

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

| | | | |
|---------------|-------|-------------------------------------|-----------|
| RA226-MMER-FC | Water | Ra226 by Alpha Scint, MDC=0.01 Bq/L | EPA 903.1 |
|---------------|-------|-------------------------------------|-----------|

| | | | |
|----------------|----------|------------------------|-----------------|
| SO4-MISA-IC-TB | Effluent | Sulfate in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|-------------|----------|------------------------|------------------------|
| TDS-MISA-TB | Effluent | Total Dissolved Solids | APHA 2540 C (modified) |
|-------------|----------|------------------------|------------------------|

Aqueous matrices are analyzed using gravimetry and evaporation

| | | | |
|----------------|-------|-------------|---------------------------|
| TEMP-CLIENT-TB | Water | Temperature | Result supplied by Client |
|----------------|-------|-------------|---------------------------|

Reference Information

TKN-F-TB Water TKN in Water by Fluorescence catnr 157/158, 062818/99334821

Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection

TOC-WT Water Total Organic Carbon APHA 5310B

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

TSS-MISA-TB Effluent Total Suspended Solids APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB Water Turbidity APHA 2130 B-Nephelometer

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |
| FC | ALS ENVIRONMENTAL - FORT COLLINS, COLORADO, USA |
| VA | ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

Page 1 of 18

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| BOD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5777386 | | | | | | | |
| WG3724419-3 | DUP | L2703297-1 | | | | | | |
| Biochemical Oxygen Demand | | 24 | 21 | | mg/L | 12 | 30 | 06-MAY-22 |
| WG3724419-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 85.4 | | % | | 85-115 | 06-MAY-22 |
| WG3724419-6 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 92.8 | | % | | 85-115 | 06-MAY-22 |
| WG3724419-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 06-MAY-22 |
| WG3724419-5 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 06-MAY-22 |
| Batch | R5778700 | | | | | | | |
| WG3724696-6 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 87.2 | | % | | 85-115 | 07-MAY-22 |
| WG3724696-5 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 07-MAY-22 |
| CL-L-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5774496 | | | | | | | |
| WG3724485-3 | DUP | L2703990-3 | | | | | | |
| Chloride (Cl) | | 3.96 | 3.96 | | mg/L | 0.1 | 20 | 06-MAY-22 |
| WG3724485-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 93.9 | | % | | 90-110 | 06-MAY-22 |
| WG3724577-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 94.4 | | % | | 90-110 | 06-MAY-22 |
| WG3724485-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 06-MAY-22 |
| WG3724577-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 06-MAY-22 |
| COD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5775742 | | | | | | | |
| WG3725082-3 | DUP | L2703782-1 | | | | | | |
| Chemical Oxygen Demand | | 25 | 26 | | mg/L | 6.1 | 20 | 10-MAY-22 |
| WG3725082-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 107.5 | | % | | 85-115 | 10-MAY-22 |
| WG3725082-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 10-MAY-22 |
| WG3725082-4 | MS | L2703988-1 | | | | | | |
| Chemical Oxygen Demand | | | 95.8 | | % | | 75-125 | 10-MAY-22 |



Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

Page 2 of 18

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| COD-TB | | Water | | | | | | |
| Batch | R5777387 | | | | | | | |
| WG3725087-3 | DUP | L2704046-14 | | | | | | |
| Chemical Oxygen Demand | | 36 | 38 | | mg/L | 3.4 | 20 | 11-MAY-22 |
| WG3725087-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 105.6 | | % | | 85-115 | 11-MAY-22 |
| WG3725087-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 11-MAY-22 |
| WG3725087-4 | MS | L2704046-15 | | | | | | |
| Chemical Oxygen Demand | | | 102.7 | | % | | 75-125 | 11-MAY-22 |
| COLOUR-TB | | Water | | | | | | |
| Batch | R5773618 | | | | | | | |
| WG3724361-3 | DUP | L2703727-1 | | | | | | |
| Color, True | | 6.0 | 6.2 | | CU | 3.8 | 20 | 06-MAY-22 |
| WG3724569-3 | DUP | L2704046-11 | | | | | | |
| Color, True | | 128 | 128 | | CU | 0.0 | 20 | 06-MAY-22 |
| WG3724361-2 | LCS | | | | | | | |
| Color, True | | | 104.2 | | % | | 85-115 | 06-MAY-22 |
| WG3724569-2 | LCS | | | | | | | |
| Color, True | | | 99.9 | | % | | 85-115 | 06-MAY-22 |
| WG3724361-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 06-MAY-22 |
| WG3724569-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 06-MAY-22 |
| F-IC-N-TB | | Water | | | | | | |
| Batch | R5774496 | | | | | | | |
| WG3724485-3 | DUP | L2703990-3 | | | | | | |
| Fluoride (F) | | 0.073 | 0.073 | | mg/L | 0.3 | 20 | 06-MAY-22 |
| WG3724485-2 | LCS | | | | | | | |
| Fluoride (F) | | | 101.6 | | % | | 90-110 | 06-MAY-22 |
| WG3724577-2 | LCS | | | | | | | |
| Fluoride (F) | | | 102.3 | | % | | 90-110 | 06-MAY-22 |
| WG3724485-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 06-MAY-22 |
| WG3724577-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 06-MAY-22 |
| MEHG-T-GCAF-VA | | Water | | | | | | |



Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|---------------------------------|--------------------|-----------|-----------|-------|-----|---------|-----------|
| MEHG-T-GCAF-VA | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5785405 | | | | | | | |
| WG3729683-2 | DUP | L2701349-1 | | | | | | |
| | Methylmercury (as MeHg)-Total | 0.000114 | 0.000118 | | ug/L | 4.2 | 20 | 18-MAY-22 |
| WG3729683-3 | LCS | | | | | | | |
| | Methylmercury (as MeHg)-Total | | 83.7 | | % | | 70-130 | 18-MAY-22 |
| WG3729683-1 | MB | | | | | | | |
| | Methylmercury (as MeHg)-Total | | <0.000020 | | ug/L | | 0.00002 | 18-MAY-22 |
| WG3729683-4 | MS | L2705087-1 | | | | | | |
| | Methylmercury (as MeHg)-Total | | 80.6 | | % | | 70-130 | 18-MAY-22 |
| PO4-DO-COL-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5774558 | | | | | | | |
| WG3724490-3 | DUP | L2703990-1 | | | | | | |
| | Orthophosphate-Dissolved (as P) | <0.0030 | <0.0030 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| WG3724573-3 | DUP | L2704046-17 | | | | | | |
| | Orthophosphate-Dissolved (as P) | <0.0030 | <0.0030 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| WG3724490-2 | LCS | | | | | | | |
| | Orthophosphate-Dissolved (as P) | | 104.3 | | % | | 80-120 | 09-MAY-22 |
| WG3724573-2 | LCS | | | | | | | |
| | Orthophosphate-Dissolved (as P) | | 107.1 | | % | | 80-120 | 09-MAY-22 |
| WG3724490-1 | MB | | | | | | | |
| | Orthophosphate-Dissolved (as P) | | <0.0030 | | mg/L | | 0.003 | 09-MAY-22 |
| WG3724573-1 | MB | | | | | | | |
| | Orthophosphate-Dissolved (as P) | | <0.0030 | | mg/L | | 0.003 | 09-MAY-22 |
| WG3724490-4 | MS | L2703990-2 | | | | | | |
| | Orthophosphate-Dissolved (as P) | | 104.8 | | % | | 70-130 | 09-MAY-22 |
| WG3724573-4 | MS | L2704046-18 | | | | | | |
| | Orthophosphate-Dissolved (as P) | | 99.1 | | % | | 70-130 | 09-MAY-22 |
| TKN-F-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5777507 | | | | | | | |
| WG3725048-3 | DUP | L2702844-1 | | | | | | |
| | Total Kjeldahl Nitrogen | 0.797 | 0.925 | | mg/L | 15 | 20 | 10-MAY-22 |
| WG3725050-3 | DUP | L2704046-6 | | | | | | |
| | Total Kjeldahl Nitrogen | 0.709 | 0.691 | | mg/L | 2.5 | 20 | 10-MAY-22 |
| WG3725048-2 | LCS | | | | | | | |
| | Total Kjeldahl Nitrogen | | 103.0 | | % | | 75-125 | 10-MAY-22 |
| WG3725050-2 | LCS | | | | | | | |
| | Total Kjeldahl Nitrogen | | 89.4 | | % | | 75-125 | 10-MAY-22 |
| WG3725048-1 | MB | | | | | | | |
| | Total Kjeldahl Nitrogen | | <0.050 | | mg/L | | 0.05 | 10-MAY-22 |



Quality Control Report

Workorder: L2704046

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| TKN-F-TB | | Water | | | | | | |
| Batch | R5777507 | | | | | | | |
| WG3725050-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 10-MAY-22 |
| WG3725048-4 | MS | L2702844-2 | | | | | | |
| Total Kjeldahl Nitrogen | | | 105.3 | | % | | 70-130 | 10-MAY-22 |
| WG3725050-4 | MS | L2704046-7 | | | | | | |
| Total Kjeldahl Nitrogen | | | 97.8 | | % | | 70-130 | 10-MAY-22 |
| TOC-WT | | Water | | | | | | |
| Batch | R5779463 | | | | | | | |
| WG3726597-3 | DUP | L2704046-4 | | | | | | |
| Total Organic Carbon | | 15.1 | 14.7 | | mg/L | 2.6 | 20 | 12-MAY-22 |
| WG3726597-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 99.7 | | % | | 80-120 | 12-MAY-22 |
| WG3726597-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 12-MAY-22 |
| WG3726597-4 | MS | L2704046-4 | | | | | | |
| Total Organic Carbon | | | N/A | MS-B | % | | - | 12-MAY-22 |
| TURBIDITY-TB | | Water | | | | | | |
| Batch | R5773476 | | | | | | | |
| WG3724563-3 | DUP | L2704046-1 | | | | | | |
| Turbidity | | 0.12 | 0.13 | | NTU | 7.2 | 15 | 06-MAY-22 |
| WG3724563-2 | LCS | | | | | | | |
| Turbidity | | | 101.5 | | % | | 85-115 | 06-MAY-22 |
| WG3724563-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 06-MAY-22 |
| Batch | R5773643 | | | | | | | |
| WG3724511-3 | DUP | L2703990-1 | | | | | | |
| Turbidity | | 2.05 | 2.00 | | NTU | 2.5 | 15 | 06-MAY-22 |
| WG3724511-2 | LCS | | | | | | | |
| Turbidity | | | 102.5 | | % | | 85-115 | 06-MAY-22 |
| WG3724511-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 06-MAY-22 |
| ACY-MISA-TB | | Effluent | | | | | | |
| Batch | R5774977 | | | | | | | |
| WG3724564-3 | DUP | L2704046-15 | | | | | | |
| Acidity (as CaCO3) | | 0.6 | 1.0 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| WG3724358-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 92.0 | | % | | 85-115 | 09-MAY-22 |



Quality Control Report

Workorder: L2704046

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| ACY-MISA-TB | | Effluent | | | | | | |
| Batch | R5774977 | | | | | | | |
| WG3724564-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 89.8 | | % | | 85-115 | 09-MAY-22 |
| WG3724358-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | 2.2 | | mg/L | | 3 | 09-MAY-22 |
| WG3724564-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | 1.8 | | mg/L | | 3 | 09-MAY-22 |
| ALK-MISA-TB | | Effluent | | | | | | |
| Batch | R5774862 | | | | | | | |
| WG3724475-3 | DUP | L2703995-1 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 92.8 | 92.4 | | mg/L | 0.4 | 20 | 06-MAY-22 |
| Alkalinity, Phenolphthalein | | <0.2 | <0.2 | RPD-NA | mg/L | N/A | 25 | 06-MAY-22 |
| WG3724561-3 | DUP | L2704046-16 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 38.8 | 38.8 | | mg/L | 0.3 | 20 | 06-MAY-22 |
| Alkalinity, Phenolphthalein | | <0.2 | <0.2 | RPD-NA | mg/L | N/A | 25 | 06-MAY-22 |
| WG3724475-2 | LCS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 100.1 | | % | | 85-115 | 06-MAY-22 |
| WG3724561-2 | LCS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 104.6 | | % | | 85-115 | 06-MAY-22 |
| WG3724475-1 | MB | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | <0.2 | | mg/L | | 2 | 06-MAY-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 06-MAY-22 |
| WG3724561-1 | MB | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | <0.2 | | mg/L | | 2 | 06-MAY-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 06-MAY-22 |
| CN-FREE-MISA-CFA-WT | | Effluent | | | | | | |
| Batch | R5775781 | | | | | | | |
| WG3724968-3 | DUP | L2703998-1 | | | | | | |
| Cyanide, Free | | 0.0004 | 0.0004 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| WG3724968-7 | DUP | L2703990-2 | | | | | | |
| Cyanide, Free | | 0.0008 | 0.0006 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| WG3724968-2 | LCS | | | | | | | |
| Cyanide, Free | | | 104.3 | | % | | 80-120 | 09-MAY-22 |
| WG3724968-6 | LCS | | | | | | | |
| Cyanide, Free | | | 102.9 | | % | | 80-120 | 09-MAY-22 |
| WG3724968-1 | MB | | | | | | | |
| Cyanide, Free | | | 0.0002 | | mg/L | | 0.002 | 09-MAY-22 |
| WG3724968-5 | MB | | | | | | | |



Quality Control Report

Workorder: L2704046

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------------------|--------|-------------------|---------|-----------|-------|-----|--------|-----------|
| CN-FREE-MISA-CFA-WT Effluent | | | | | | | | |
| Batch R5775781 | | | | | | | | |
| WG3724968-5 MB | | | | | | | | |
| Cyanide, Free | | | <0.0001 | | mg/L | | 0.002 | 09-MAY-22 |
| WG3724968-4 MS | | L2703998-1 | | | | | | |
| Cyanide, Free | | | 102.9 | | % | | 75-125 | 09-MAY-22 |
| WG3724968-8 MS | | L2703990-2 | | | | | | |
| Cyanide, Free | | | 103.1 | | % | | 75-125 | 09-MAY-22 |
| CN-T-MISA-CFA-WT Effluent | | | | | | | | |
| Batch R5775781 | | | | | | | | |
| WG3724968-3 DUP | | L2703998-1 | | | | | | |
| Cyanide, Total | | 0.0004 | 0.0004 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| WG3724968-7 DUP | | L2703990-2 | | | | | | |
| Cyanide, Total | | <0.0002 | 0.0002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| WG3724968-2 LCS | | | | | | | | |
| Cyanide, Total | | | 102.1 | | % | | 80-120 | 09-MAY-22 |
| WG3724968-6 LCS | | | | | | | | |
| Cyanide, Total | | | 102.7 | | % | | 80-120 | 09-MAY-22 |
| WG3724968-1 MB | | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 09-MAY-22 |
| WG3724968-5 MB | | | | | | | | |
| Cyanide, Total | | | 0.0002 | | mg/L | | 0.002 | 09-MAY-22 |
| WG3724968-4 MS | | L2703998-1 | | | | | | |
| Cyanide, Total | | | 98.8 | | % | | 75-125 | 09-MAY-22 |
| WG3724968-8 MS | | L2703990-2 | | | | | | |
| Cyanide, Total | | | 101.4 | | % | | 75-125 | 09-MAY-22 |
| CN-WAD-MISA-CFA-WT Effluent | | | | | | | | |
| Batch R5775781 | | | | | | | | |
| WG3724968-3 DUP | | L2703998-1 | | | | | | |
| Cyanide, Weak Acid Diss | | 0.0004 | 0.0002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| WG3724968-7 DUP | | L2703990-2 | | | | | | |
| Cyanide, Weak Acid Diss | | 0.0004 | 0.0004 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| WG3724968-2 LCS | | | | | | | | |
| Cyanide, Weak Acid Diss | | | 107.9 | | % | | 80-120 | 09-MAY-22 |
| WG3724968-6 LCS | | | | | | | | |
| Cyanide, Weak Acid Diss | | | 106.6 | | % | | 80-120 | 09-MAY-22 |
| WG3724968-1 MB | | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 09-MAY-22 |
| WG3724968-5 MB | | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 09-MAY-22 |



Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|--------------------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| CN-WAD-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5775781 | | | | | | | |
| WG3724968-4 | MS | L2703998-1 | | | | | | |
| | Cyanide, Weak Acid Diss | | 107.2 | | % | | 75-125 | 09-MAY-22 |
| WG3724968-8 | MS | L2703990-2 | | | | | | |
| | Cyanide, Weak Acid Diss | | 111.8 | | % | | 75-125 | 09-MAY-22 |
| DOC-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5777179 | | | | | | | |
| WG3725575-3 | DUP | WG3725575-5 | | | | | | |
| | Dissolved Organic Carbon | <0.50 | <0.50 | RPD-NA | mg/L | N/A | 25 | 11-MAY-22 |
| WG3725575-2 | LCS | | | | | | | |
| | Dissolved Organic Carbon | | 93.8 | | % | | 70-130 | 11-MAY-22 |
| WG3725575-1 | MB | | | | | | | |
| | Dissolved Organic Carbon | | <0.50 | | mg/L | | 0.5 | 11-MAY-22 |
| Batch | R5778383 | | | | | | | |
| WG3725614-3 | DUP | WG3725614-5 | | | | | | |
| | Dissolved Organic Carbon | 21.5 | 21.8 | | mg/L | 1.6 | 25 | 11-MAY-22 |
| WG3725614-2 | LCS | | | | | | | |
| | Dissolved Organic Carbon | | 95.5 | | % | | 70-130 | 11-MAY-22 |
| WG3725614-1 | MB | | | | | | | |
| | Dissolved Organic Carbon | | <0.50 | | mg/L | | 0.5 | 11-MAY-22 |
| Batch | R5778461 | | | | | | | |
| WG3725984-3 | DUP | WG3725984-5 | | | | | | |
| | Dissolved Organic Carbon | <0.50 | <0.50 | RPD-NA | mg/L | N/A | 25 | 11-MAY-22 |
| WG3725984-2 | LCS | | | | | | | |
| | Dissolved Organic Carbon | | 102.2 | | % | | 70-130 | 11-MAY-22 |
| WG3725984-1 | MB | | | | | | | |
| | Dissolved Organic Carbon | | <0.50 | | mg/L | | 0.5 | 11-MAY-22 |
| EC-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5774862 | | | | | | | |
| WG3724475-3 | DUP | L2703995-1 | | | | | | |
| | Conductivity (EC) | 1490 | 1490 | | uS/cm | 0.1 | 10 | 06-MAY-22 |
| WG3724561-3 | DUP | L2704046-16 | | | | | | |
| | Conductivity (EC) | 85.2 | 82.0 | | uS/cm | 3.7 | 10 | 06-MAY-22 |
| WG3724475-2 | LCS | | | | | | | |
| | Conductivity (EC) | | 99.6 | | % | | 90-110 | 06-MAY-22 |
| WG3724561-2 | LCS | | | | | | | |
| | Conductivity (EC) | | 100.2 | | % | | 90-110 | 06-MAY-22 |
| WG3724475-1 | MB | | | | | | | |



Quality Control Report

Workorder: L2704046

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|------------|-----------|-------|-----|----------|-----------|
| HG-TOT-WT | | Effluent | | | | | | |
| Batch | R5774723 | | | | | | | |
| WG3724953-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 92.2 | | % | | 80-120 | 09-MAY-22 |
| WG3724953-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.000005 | 09-MAY-22 |
| WG3724953-4 | MS | L2704046-16 | | | | | | |
| Mercury (Hg)-Total | | | 96.8 | | % | | 70-130 | 09-MAY-22 |
| MET-D-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5775419 | | | | | | | |
| WG3725183-4 | DUP | WG3725183-3 | | | | | | |
| Aluminum (Al)-Dissolved | | 0.0010 | 0.0010 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Antimony (Sb)-Dissolved | | 0.000010 | 0.000010 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Arsenic (As)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Barium (Ba)-Dissolved | | 0.00004 | 0.00002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Beryllium (Be)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Bismuth (Bi)-Dissolved | | 0.000010 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Boron (B)-Dissolved | | 0.004 | 0.004 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Cadmium (Cd)-Dissolved | | <0.0000002 | 0.0000004 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Calcium (Ca)-Dissolved | | 0.040 | 0.035 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Cesium (Cs)-Dissolved | | <0.0000002 | <0.0000002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Chromium (Cr)-Dissolved | | 0.00010 | 0.00010 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Cobalt (Co)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Copper (Cu)-Dissolved | | <0.00005 | <0.00005 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Iron (Fe)-Dissolved | | <0.001 | <0.001 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Lead (Pb)-Dissolved | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Lithium (Li)-Dissolved | | <0.0002 | <0.0002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Magnesium (Mg)-Dissolved | | <0.0005 | 0.0005 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Manganese (Mn)-Dissolved | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Molybdenum (Mo)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Nickel (Ni)-Dissolved | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Phosphorus (P)-Dissolved | | <0.002 | <0.002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Potassium (K)-Dissolved | | <0.002 | <0.002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Rubidium (Rb)-Dissolved | | 0.000004 | 0.000004 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Selenium (Se)-Dissolved | | <0.000002 | 0.000006 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Silicon (Si)-Dissolved | | 0.172 | 0.166 | | mg/L | 3.1 | 25 | 09-MAY-22 |



Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-MS-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5775419 | | | | | | | |
| WG3725183-4 | DUP | WG3725183-3 | | | | | | |
| Silver (Ag)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Sodium (Na)-Dissolved | | 0.070 | 0.075 | | mg/L | 4.4 | 20 | 09-MAY-22 |
| Strontium (Sr)-Dissolved | | 0.00006 | 0.00006 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Sulfur (S)-Dissolved | | <0.05 | <0.05 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Tellurium (Te)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Thallium (Tl)-Dissolved | | <0.000001 | <0.000001 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Thorium (Th)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Tin (Sn)-Dissolved | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Titanium (Ti)-Dissolved | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Tungsten (W)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Uranium (U)-Dissolved | | <0.0000005 | <0.0000005 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Vanadium (V)-Dissolved | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Zinc (Zn)-Dissolved | | <0.0002 | <0.0002 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| Zirconium (Zr)-Dissolved | | <0.000004 | <0.000004 | RPD-NA | mg/L | N/A | 20 | 09-MAY-22 |
| WG3725183-1 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0002 | | mg/L | | 0.005 | 09-MAY-22 |
| Antimony (Sb)-Dissolved | | | 0.000005 | | mg/L | | 0.0001 | 09-MAY-22 |
| Arsenic (As)-Dissolved | | | <0.000005 | | mg/L | | 0.0001 | 09-MAY-22 |
| Barium (Ba)-Dissolved | | | <0.00002 | | mg/L | | 0.0001 | 09-MAY-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 09-MAY-22 |
| Bismuth (Bi)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 09-MAY-22 |
| Boron (B)-Dissolved | | | <0.002 | | mg/L | | 0.01 | 09-MAY-22 |
| Cadmium (Cd)-Dissolved | | | 0.0000006 | | mg/L | | 0.000005 | 09-MAY-22 |
| Calcium (Ca)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 09-MAY-22 |
| Cesium (Cs)-Dissolved | | | 0.0000008 | | mg/L | | 0.00001 | 09-MAY-22 |
| Chromium (Cr)-Dissolved | | | <0.00002 | | mg/L | | 0.0005 | 09-MAY-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 09-MAY-22 |
| Copper (Cu)-Dissolved | | | <0.00005 | | mg/L | | 0.0002 | 09-MAY-22 |
| Iron (Fe)-Dissolved | | | <0.001 | | mg/L | | 0.01 | 09-MAY-22 |
| Lead (Pb)-Dissolved | | | <0.00002 | | mg/L | | 0.00005 | 09-MAY-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.001 | 09-MAY-22 |
| Magnesium (Mg)-Dissolved | | | <0.0005 | | mg/L | | 0.005 | 09-MAY-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.0005 | 09-MAY-22 |



Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|--------|--------------------|------------|-----------|-------|-----|---------|-----------|
| MET-D-MISA-MS-WT | | Effluent | | | | | | |
| Batch R5775419 | | | | | | | | |
| WG3725183-1 MB | | | | | | | | |
| Molybdenum (Mo)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 09-MAY-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.0005 | 09-MAY-22 |
| Phosphorus (P)-Dissolved | | | <0.002 | | mg/L | | 0.05 | 09-MAY-22 |
| Potassium (K)-Dissolved | | | <0.002 | | mg/L | | 0.05 | 09-MAY-22 |
| Rubidium (Rb)-Dissolved | | | 0.000004 | | mg/L | | 0.0002 | 09-MAY-22 |
| Selenium (Se)-Dissolved | | | 0.000004 | | mg/L | | 0.00005 | 09-MAY-22 |
| Silicon (Si)-Dissolved | | | <0.002 | | mg/L | | 0.05 | 09-MAY-22 |
| Silver (Ag)-Dissolved | | | 0.0000005 | | mg/L | | 0.00005 | 09-MAY-22 |
| Sodium (Na)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 09-MAY-22 |
| Strontium (Sr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 09-MAY-22 |
| Sulfur (S)-Dissolved | | | <0.05 | | mg/L | | 0.5 | 09-MAY-22 |
| Tellurium (Te)-Dissolved | | | <0.000005 | | mg/L | | 0.0002 | 09-MAY-22 |
| Thallium (Tl)-Dissolved | | | <0.000001 | | mg/L | | 0.00001 | 09-MAY-22 |
| Thorium (Th)-Dissolved | | | 0.000002 | | mg/L | | 0.0001 | 09-MAY-22 |
| Tin (Sn)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 09-MAY-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.0003 | 09-MAY-22 |
| Tungsten (W)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 09-MAY-22 |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 09-MAY-22 |
| Vanadium (V)-Dissolved | | | <0.00002 | | mg/L | | 0.0005 | 09-MAY-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.001 | 09-MAY-22 |
| Zirconium (Zr)-Dissolved | | | <0.000004 | | mg/L | | 0.0002 | 09-MAY-22 |
| MET-T-MISA-MS-WT | | Effluent | | | | | | |
| Batch R5774622 | | | | | | | | |
| WG3724812-4 DUP | | | | | | | | |
| | | WG3724812-3 | | | | | | |
| Aluminum (Al)-Total | | 0.0008 | 0.0006 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Antimony (Sb)-Total | | 0.000010 | 0.000010 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Arsenic (As)-Total | | 0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Barium (Ba)-Total | | 0.00004 | 0.00004 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Beryllium (Be)-Total | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Bismuth (Bi)-Total | | 0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Boron (B)-Total | | 0.004 | 0.006 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Cadmium (Cd)-Total | | 0.0000008 | 0.0000010 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Calcium (Ca)-Total | | 0.070 | 0.040 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |



Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|------------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5774622 | | | | | | | |
| WG3724812-4 | DUP | WG3724812-3 | | | | | | |
| Cesium (Cs)-Total | | 0.0000006 | <0.0000002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Chromium (Cr)-Total | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Cobalt (Co)-Total | | 0.000010 | 0.000004 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Copper (Cu)-Total | | <0.00005 | <0.00005 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Iron (Fe)-Total | | <0.001 | <0.001 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Lead (Pb)-Total | | 0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Lithium (Li)-Total | | <0.0002 | <0.0002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Magnesium (Mg)-Total | | 0.0040 | 0.0010 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Manganese (Mn)-Total | | 0.00008 | <0.00002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Molybdenum (Mo)-Total | | 0.000005 | 0.000005 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Nickel (Ni)-Total | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Phosphorus (P)-Total | | <0.002 | 0.008 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Potassium (K)-Total | | <0.002 | <0.002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Rubidium (Rb)-Total | | 0.000014 | 0.000004 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Selenium (Se)-Total | | 0.000014 | 0.000014 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Silicon (Si)-Total | | 0.190 | 0.180 | | mg/L | 5.1 | 25 | 09-MAY-22 |
| Silver (Ag)-Total | | <0.0000005 | <0.0000005 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Sodium (Na)-Total | | 0.075 | 0.075 | | mg/L | 5.9 | 25 | 09-MAY-22 |
| Strontium (Sr)-Total | | 0.00009 | 0.00007 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Sulfur (S)-Total | | <0.05 | <0.05 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Tellurium (Te)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Thallium (Tl)-Total | | 0.000001 | <0.000001 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Thorium (Th)-Total | | 0.000002 | 0.000002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Tin (Sn)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Titanium (Ti)-Total | | 0.00004 | <0.00002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Tungsten (W)-Total | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Uranium (U)-Total | | 0.0000005 | <0.0000005 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Vanadium (V)-Total | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Zinc (Zn)-Total | | 0.0010 | <0.0002 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| Zirconium (Zr)-Total | | <0.000004 | <0.000004 | RPD-NA | mg/L | N/A | 25 | 09-MAY-22 |
| WG3724812-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | 0.0012 | | mg/L | | 0.005 | 09-MAY-22 |
| Antimony (Sb)-Total | | | 0.000005 | | mg/L | | 0.0001 | 09-MAY-22 |



Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5774622 | | | | | | | |
| WG3724812-1 MB | | | | | | | | |
| Arsenic (As)-Total | | | 0.000010 | | mg/L | | 0.0001 | 09-MAY-22 |
| Barium (Ba)-Total | | | <0.00002 | | mg/L | | 0.0001 | 09-MAY-22 |
| Beryllium (Be)-Total | | | <0.000002 | | mg/L | | 0.0001 | 09-MAY-22 |
| Bismuth (Bi)-Total | | | <0.000005 | | mg/L | | 0.00005 | 09-MAY-22 |
| Boron (B)-Total | | | <0.002 | | mg/L | | 0.01 | 09-MAY-22 |
| Cadmium (Cd)-Total | | | <0.0000002 | | mg/L | | 0.000005 | 09-MAY-22 |
| Calcium (Ca)-Total | | | <0.005 | | mg/L | | 0.05 | 09-MAY-22 |
| Cesium (Cs)-Total | | | <0.0000002 | | mg/L | | 0.00001 | 09-MAY-22 |
| Chromium (Cr)-Total | | | 0.00012 | | mg/L | | 0.0005 | 09-MAY-22 |
| Cobalt (Co)-Total | | | <0.000002 | | mg/L | | 0.0001 | 09-MAY-22 |
| Copper (Cu)-Total | | | <0.00005 | | mg/L | | 0.0005 | 09-MAY-22 |
| Iron (Fe)-Total | | | <0.001 | | mg/L | | 0.01 | 09-MAY-22 |
| Lead (Pb)-Total | | | <0.00002 | | mg/L | | 0.00005 | 09-MAY-22 |
| Lithium (Li)-Total | | | <0.0002 | | mg/L | | 0.001 | 09-MAY-22 |
| Magnesium (Mg)-Total | | | <0.0005 | | mg/L | | 0.005 | 09-MAY-22 |
| Manganese (Mn)-Total | | | <0.00002 | | mg/L | | 0.0005 | 09-MAY-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.00005 | 09-MAY-22 |
| Nickel (Ni)-Total | | | 0.00004 | | mg/L | | 0.0005 | 09-MAY-22 |
| Phosphorus (P)-Total | | | 0.006 | | mg/L | | 0.05 | 09-MAY-22 |
| Potassium (K)-Total | | | <0.002 | | mg/L | | 0.05 | 09-MAY-22 |
| Rubidium (Rb)-Total | | | 0.000004 | | mg/L | | 0.0002 | 09-MAY-22 |
| Selenium (Se)-Total | | | 0.000038 | | mg/L | | 0.00005 | 09-MAY-22 |
| Silicon (Si)-Total | | | 0.026 | | mg/L | | 0.1 | 09-MAY-22 |
| Silver (Ag)-Total | | | <0.0000005 | | mg/L | | 0.00005 | 09-MAY-22 |
| Sodium (Na)-Total | | | 0.015 | | mg/L | | 0.05 | 09-MAY-22 |
| Strontium (Sr)-Total | | | 0.00004 | | mg/L | | 0.001 | 09-MAY-22 |
| Sulfur (S)-Total | | | <0.05 | | mg/L | | 0.5 | 09-MAY-22 |
| Tellurium (Te)-Total | | | 0.000025 | | mg/L | | 0.0002 | 09-MAY-22 |
| Thallium (Tl)-Total | | | <0.000001 | | mg/L | | 0.00001 | 09-MAY-22 |
| Thorium (Th)-Total | | | <0.000002 | | mg/L | | 0.0001 | 09-MAY-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.0001 | 09-MAY-22 |
| Titanium (Ti)-Total | | | <0.00002 | | mg/L | | 0.0003 | 09-MAY-22 |
| Tungsten (W)-Total | | | <0.000002 | | mg/L | | 0.0001 | 09-MAY-22 |



Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|--------|--------------------|------------|-----------|-------|-----|---------|-----------|
| MET-T-MISA-MS-WT | | Effluent | | | | | | |
| Batch R5774622 | | | | | | | | |
| WG3724812-1 MB | | | | | | | | |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 09-MAY-22 |
| Vanadium (V)-Total | | | 0.00006 | | mg/L | | 0.0005 | 09-MAY-22 |
| Zinc (Zn)-Total | | | <0.0002 | | mg/L | | 0.003 | 09-MAY-22 |
| Zirconium (Zr)-Total | | | <0.000004 | | mg/L | | 0.0002 | 09-MAY-22 |
| NH3-MISA-F-TB | | Effluent | | | | | | |
| Batch R5775697 | | | | | | | | |
| WG3725030-3 DUP | | L2703990-3 | | | | | | |
| Ammonia, Total (as N) | | 0.180 | 0.178 | | mg/L | 0.1 | 20 | 09-MAY-22 |
| WG3725030-2 LCS | | | | | | | | |
| Ammonia, Total (as N) | | | 95.1 | | % | | 85-115 | 09-MAY-22 |
| WG3725030-1 MB | | | | | | | | |
| Ammonia, Total (as N) | | | 0.004 | | mg/L | | 0.005 | 09-MAY-22 |
| Batch R5777538 | | | | | | | | |
| WG3725032-3 DUP | | L2704046-18 | | | | | | |
| Ammonia, Total (as N) | | <0.002 | <0.002 | RPD-NA | mg/L | N/A | 20 | 11-MAY-22 |
| WG3725032-2 LCS | | | | | | | | |
| Ammonia, Total (as N) | | | 108.0 | | % | | 85-115 | 11-MAY-22 |
| WG3725032-1 MB | | | | | | | | |
| Ammonia, Total (as N) | | | 0.008 | MB-LOR | mg/L | | 0.005 | 11-MAY-22 |
| Batch R5782200 | | | | | | | | |
| WG3727694-3 DUP | | L2704046-10 | | | | | | |
| Ammonia, Total (as N) | | 0.024 | 0.026 | | mg/L | 12 | 20 | 16-MAY-22 |
| WG3727694-2 LCS | | | | | | | | |
| Ammonia, Total (as N) | | | 101.2 | | % | | 85-115 | 16-MAY-22 |
| WG3727694-1 MB | | | | | | | | |
| Ammonia, Total (as N) | | | <0.002 | | mg/L | | 0.005 | 16-MAY-22 |
| WG3727694-4 MS | | L2704046-11 | | | | | | |
| Ammonia, Total (as N) | | | 109.4 | | % | | 75-125 | 16-MAY-22 |
| NO2-MISA-IC-TB | | Effluent | | | | | | |
| Batch R5774496 | | | | | | | | |
| WG3724485-3 DUP | | L2703990-3 | | | | | | |
| Nitrite (as N) | | 0.031 | 0.030 | | mg/L | 2.3 | 20 | 06-MAY-22 |
| WG3724485-2 LCS | | | | | | | | |
| Nitrite (as N) | | | 100.0 | | % | | 90-110 | 06-MAY-22 |
| WG3724577-2 LCS | | | | | | | | |
| Nitrite (as N) | | | 100.7 | | % | | 90-110 | 06-MAY-22 |



Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|------------|--------------------|--------|-----------|-------|------|---------|-----------|
| NO2-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5774496 | | | | | | | |
| WG3724485-1 | MB | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 06-MAY-22 |
| WG3724577-1 | MB | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 06-MAY-22 |
| NO3-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5774496 | | | | | | | |
| WG3724485-3 | DUP | L2703990-3 | | | | | | |
| Nitrate (as N) | | 3.51 | 3.52 | | mg/L | 0.5 | 20 | 06-MAY-22 |
| WG3724485-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 98.6 | | % | | 90-110 | 06-MAY-22 |
| WG3724577-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 99.2 | | % | | 90-110 | 06-MAY-22 |
| WG3724485-1 | MB | | | | | | | |
| Nitrate (as N) | | | 0.004 | | mg/L | | 0.02 | 06-MAY-22 |
| WG3724577-1 | MB | | | | | | | |
| Nitrate (as N) | | | 0.004 | | mg/L | | 0.02 | 06-MAY-22 |
| OGG-TOT-WT | | Effluent | | | | | | |
| Batch | R5778116 | | | | | | | |
| WG3726433-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 100.4 | | % | | 50-150 | 12-MAY-22 |
| WG3726433-1 | MB | | | | | | | |
| Oil and Grease, Total | | | 0.6 | | mg/L | | 1 | 12-MAY-22 |
| Batch | R5779462 | | | | | | | |
| WG3726683-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 84.3 | | % | | 50-150 | 12-MAY-22 |
| WG3726683-1 | MB | | | | | | | |
| Oil and Grease, Total | | | 0.6 | | mg/L | | 1 | 12-MAY-22 |
| PH-MISA-TB | | Effluent | | | | | | |
| Batch | R5774862 | | | | | | | |
| WG3724475-3 | DUP | L2703995-1 | | | | | | |
| pH | | 7.96 | 7.98 | J | pH | 0.02 | 0.2 | 06-MAY-22 |
| WG3724561-3 | DUP | L2704046-16 | | | | | | |
| pH | | 7.30 | 7.43 | J | pH | 0.13 | 0.2 | 06-MAY-22 |
| WG3724475-2 | LCS | | | | | | | |
| pH | | | 6.99 | | pH | | 6.9-7.1 | 06-MAY-22 |
| WG3724561-2 | LCS | | | | | | | |
| pH | | | 6.93 | | pH | | 6.9-7.1 | 06-MAY-22 |



Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| SO4-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5774496 | | | | | | | |
| WG3724485-3 | DUP | L2703990-3 | | | | | | |
| Sulfate (SO4) | | 120 | 120 | | mg/L | 0.2 | 20 | 06-MAY-22 |
| WG3724485-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 100.6 | | % | | 90-110 | 06-MAY-22 |
| WG3724577-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 101.2 | | % | | 90-110 | 06-MAY-22 |
| WG3724485-1 | MB | | | | | | | |
| Sulfate (SO4) | | | <0.05 | | mg/L | | 0.35 | 06-MAY-22 |
| WG3724577-1 | MB | | | | | | | |
| Sulfate (SO4) | | | <0.05 | | mg/L | | 0.3 | 06-MAY-22 |
| TDS-MISA-TB | | Effluent | | | | | | |
| Batch | R5775596 | | | | | | | |
| WG3724880-3 | DUP | L2704221-6 | | | | | | |
| Total Dissolved Solids | | 314 | 316 | | mg/L | 0.8 | 20 | 09-MAY-22 |
| WG3724880-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 96.0 | | % | | 85-115 | 09-MAY-22 |
| WG3724880-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <2 | | mg/L | | 10 | 09-MAY-22 |
| Batch | R5775817 | | | | | | | |
| WG3725128-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 90.6 | | % | | 85-115 | 09-MAY-22 |
| WG3725128-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <2 | | mg/L | | 10 | 09-MAY-22 |
| TSS-MISA-TB | | Effluent | | | | | | |
| Batch | R5775556 | | | | | | | |
| WG3724883-3 | DUP | L2704221-6 | | | | | | |
| Total Suspended Solids | | 5.5 | 5.0 | | mg/L | 15 | 20 | 09-MAY-22 |
| WG3724883-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 96.8 | | % | | 85-115 | 09-MAY-22 |
| WG3724883-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 09-MAY-22 |
| Batch | R5777137 | | | | | | | |
| WG3725643-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 95.0 | | % | | 85-115 | 10-MAY-22 |
| WG3725643-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 10-MAY-22 |

Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MB-LOR | Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

Page 18 of 18

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon for MISA | | | | | | | |
| | 1 | 03-MAY-22 12:00 | 11-MAY-22 00:00 | 3 | 8 | days | EHTL |
| | 18 | 04-MAY-22 12:00 | 11-MAY-22 00:00 | 3 | 7 | days | EHT |

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2704046 were received on 06-MAY-22 10:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2704046-COFC

Project Name: Rainy River
Location: Chapple
Project Number:
Project Manager:
PO Number:
Project:
Turn Around Time (days): 10 Business Days
Shipping Company:
Shipping Date: 5/4/2022 4:10:00 PM
COC Number: ALS-446856736

| Sample Code | DO | PH | TEMP | Date and Time | Matrix | Containers | | Number of Containers | Comments |
|-----------------------|-------|------|------|------------------|--------|---------------|----------------|----------------------|----------|
| | | | | | | SW Kit | Ra-226 Bottle | | |
| | | | | | | Filtered | N | | |
| | | | | | | Preservatives | | | |
| | | | | | | NG-SW-P-TB | RA226-MIMER-BE | | |
| 1 FB_SW_20220503 | | | | 05/03/2022 12:00 | SW | X | | 11 | |
| 2 SW02_SW_20220503 | 11.47 | 6.08 | 3.36 | 05/03/2022 10:55 | SW | X | | 11 | |
| 3 SW03_SW_20220503 | 5.03 | 6.75 | 5.35 | 05/03/2022 12:30 | SW | X | | 11 | |
| 4 SW06_SW_20220503 | | | | 05/04/2022 12:00 | SW | X | | 11 | |
| 5 SW10_SW_20220503 | 11.35 | 6.11 | 6.38 | 05/03/2022 14:35 | SW | X | | 11 | |
| 6 SW15_SW_20220503 | 5.43 | 6.87 | 5.58 | 05/03/2022 10:25 | SW | X | | 11 | |

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|--------------------------|---------------------------------|---|------|--|
| Shipped by | 5/4/2022 4:10:00 PM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by <i>AM</i> | <i>6/5/2022 10:30</i> Temp 12.0 | | | |

KCF



L2704046-COFC

CHAIN OF CUSTODY RECORD - ALS-446856736

Project Name: Rainy Riv
 Location: Chapple
 Project Number:
 Project Manager:
 PO Number:
 Project:
 Turn Around Time (days): 10 Business Days
 Shipping Company:
 Shipping Date: 5/4/2022 4:10:00 PM
 COC Number: ALS-446856736

| Sample Code | DO | PH | TEMP | Date and Time | Matrix | Containers | | Filtered | Preservatives | Number of Containers | Comments |
|-------------------|-------|------|------|------------------|--------|------------|---------------|----------|---------------|----------------------|----------|
| | | | | | | SW Kit | Ra-226 Bottle | | | | |
| SW17_SW_20220503 | 7 | 6.98 | 6.7 | 05/03/2022 09:50 | SW | X | | N | | 11 | |
| SW20_SW_20220503 | 9.75 | 6.21 | 7.37 | 05/03/2022 14:10 | SW | X | X | | | 12 | |
| SW21A_SW_20220503 | 6.06 | 6.89 | 6.48 | 05/04/2022 10:30 | SW | X | | | | 11 | |
| SW22A_SW_20220503 | 6.47 | 6.93 | 5.57 | 05/04/2022 09:00 | SW | X | X | | | 12 | |
| SW23_SW_20220503 | 7.37 | 6.65 | 3.79 | 05/03/2022 11:00 | SW | X | X | | | 12 | |
| SW24_SW_20220503 | 7.14 | 6.86 | 5.52 | 05/03/2022 11:10 | SW | X | X | | | 12 | |
| SW25_SW_20220503 | 11.09 | 6.72 | 4.87 | 05/03/2022 08:55 | SW | X | | | | 11 | |

7
8
9
10
11
12
13

| | | | | | | |
|------------------------|--|-----------------------|-----------------------------|--|------|-----------------------------------|
| Signature | | Data/Time | Shipping Details | | ATTN | Special Instructions: |
| Shipped by | | 5/4/2022 4:10:00 PM | Method of Shipment: Courier | | | |
| Received by <i>AMI</i> | | <i>6/5/2022 10:30</i> | On Ice: yes / no | | | Email Invoice to: |
| | | <i>Temp: 12.0</i> | Shipped: Air/Ground | | | rainyriver.accounts1@newgold.com |
| | | | Lab Name: ALS Thunder Bay | | | Email Report to: |
| | | | Lab Phone: | | | rainyriver.labresults@newgold.com |



L2704046-COFC

IN OF CUSTODY RECORD - ALS-446856736

Project Name: Rainy Rive.
 Location: Chapple
 Project Number:
 Project Manager:
 PO Number:
 Project:
 Turn Around Time (days): 10 Business Days
 Shipping Company:
 Shipping Date: 5/4/2022 4:10:00 PM
 COC Number: ALS-446856736

| Sample Code | DO | PH | TEMP | Date and Time | Matrix | Containers | | | | | | | | | | Number of Containers | Comments | | |
|----------------------|-------|------|------|------------------|--------|---------------|---------------|---------------|--|--|--|--|--|--|--|----------------------|----------|----|--|
| | | | | | | SW Kit | Ra-226 Bottle | | | | | | | | | | | | |
| | | | | | | Filtered | N | N | | | | | | | | | | | |
| | | | | | | Preservatives | | | | | | | | | | | | | |
| | | | | | | | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | | |
| 14 SW26_SW_20220503 | 13.93 | 6.62 | 4 | 05/03/2022 10:00 | SW | X | | | | | | | | | | | 11 | | |
| 15 SW27_SW_20220503 | 11.8 | 7.16 | 9.76 | 05/04/2022 14:50 | SW | X | | | | | | | | | | | | 11 | |
| 16 SW28A_SW_20220503 | 10.7 | 6.05 | 8.3 | 05/03/2022 15:00 | SW | X | | | | | | | | | | | | 11 | |
| 17 SW29_SW_20220503 | 2.52 | 7.1 | 4.26 | 05/03/2022 13:00 | SW | X | | | | | | | | | | | | 11 | |
| 18 TB_SW_20220503 | | | | 05/04/2022 12:00 | SW | X | | | | | | | | | | | | 11 | |

| | | | | |
|-------------|----------------------------------|-----------------------------|------|---|
| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
| Shipped by | 5/4/2022 4:10:00 PM | Method of Shipment: Courier | | |
| Received by | AMI 6/5/2022 10:30 Temp: 12.0 | On Ice: yes / no | | Email Invoice to: rainyriver.accounts1@newgold.com |
| | | Shipped: Air/Ground | | Email Report to: rainyriver.labresults@newgold.com |
| | | Lab Name: ALS Thunder Bay | | |
| | | Lab Phone: | | |

| |
|--|
| Drinking Water (DW) Samples (client use) |
| Are samples taken from a Regulated DW System? Yes <input checked="" type="checkbox"/> No |
| Are samples for human consumption / use? Yes <input checked="" type="checkbox"/> No |
| Samples from a Regulated DW System require an Authorized DW COC form |

| Sample Receipt Details (ALS use only) | | | | | | | |
|--|--|--|--|------------------------------|--|--|--|
| Cooling Method: <input type="checkbox"/> None <input type="checkbox"/> Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Frozen <input type="checkbox"/> Cooling Initiated | | | | | | | |
| Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | |
| Cooler Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA Sample Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA | | | | | | | |
| Initial Cooler Temperatures °C | | | | Final Cooler Temperatures °C | | | |
| | | | | | | | |



L2704046-COFC

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|---------------------|---|------|--|
| Shipped by | 5/4/2022 4:10:00 PM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | | | | |



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 09-JUN-22
Report Date: 15-JUL-22 15:40 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2713614
Project P.O. #: 4500062842
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:

<original signed by>

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2713614-1 FB_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 10-JUN-22 | R5796500 |
| Conductivity (EC) | <0.2 | <W | 1.0 | uS/cm | | 11-JUN-22 | R5797639 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 5.59 | | 0.10 | pH | | 11-JUN-22 | R5797639 |
| Total Suspended Solids | 0.5 | <DL | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 2 | <DL | 10 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 0.19 | | 0.10 | NTU | | 09-JUN-22 | R5796147 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 18-JUN-22 | R5804702 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 0.05 | <DL | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0001 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 07-JUN-22 | 15-JUN-22 | R5802420 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0004 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.00004 | <DL | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0025 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 0.032 | <DL | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00012 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.0010 | <DL | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | <0.00001 | <W | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-1 FB_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Magnesium (Mg)-Total | 0.0022 | <DL | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | <0.00002 | <W | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.000004 | <DL | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 0.040 | <DL | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 0.025 | <DL | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.000045 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | 0.00007 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00009 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | <0.00005 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000004 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | <0.0002 | <W | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.0000020 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.000030 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0030 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 0.024 | <DL | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00013 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|----------|-----------|-----------|----------|
| L2713614-1 FB_SW_20220607 Sampled By: Client on 07-JUN-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 0.0025 | <DL | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.00004 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.000004 | <DL | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 0.055 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 0.030 | <DL | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.00004 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | 0.000040 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0002 | <DL | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| L2713614-2 SW03_SW_20220607 Sampled By: Client on 07-JUN-22 @ 12:40 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.94 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 15.33 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 162 | | 2.0 | CU | | 10-JUN-22 | R5796500 |
| Conductivity (EC) | 360 | | 1.0 | uS/cm | | 11-JUN-22 | R5797639 |
| Hardness (as CaCO3) | 150 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 8.03 | | 0.10 | pH | | 11-JUN-22 | R5797639 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 262 | | 20 | mg/L | | 10-JUN-22 | R5796737 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-2 SW03_SW_20220607 Sampled By: Client on 07-JUN-22 @ 12:40 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Turbidity | 3.19 | | 0.10 | NTU | | 09-JUN-22 | R5796147 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.8 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 119 | | 2.0 | mg/L | | 18-JUN-22 | R5804702 |
| Ammonia, Total (as N) | 0.012 | <T | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 7.42 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.067 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | 0.072 | <T | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 1.03 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | 0.0082 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 68.6 | | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0009 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0004 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 27.1 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5804000 |
| Total Organic Carbon | 29.8 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.127 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.000900 | <T | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00148 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.0209 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | 0.0000095 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0260 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000012 | <DL | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 40.3 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000310 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00048 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000275 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00168 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.396 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00010 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0046 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 11.7 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0636 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.00128 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00154 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-2 SW03_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 12:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Phosphorus (P)-Total | 0.035 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 6.43 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00375 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000245 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 1.41 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 15.8 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.128 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | 23.6 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00378 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | 0.00002 | <DL | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000572 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00090 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0095 | <T | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000344 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0362 | | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.000825 | <T | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.00145 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0217 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0245 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000100 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 40.5 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000160 | | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00019 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000216 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00150 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.274 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0050 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 11.9 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.0634 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.00110 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2713614-2 SW03_SW_20220607 Sampled By: Client on 07-JUN-22 @ 12:40 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Nickel (Ni)-Dissolved | 0.00152 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 6.52 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00395 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000270 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 1.34 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 16.2 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.127 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 24.2 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00132 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | 0.000016 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.000608 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00072 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0032 | <T | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000326 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000101 | | 0.000020 | ug/L | 05-JUL-22 | 06-JUL-22 | R5813123 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 11-JUN-22 | R5803091 |
| Chemical Oxygen Demand | 72 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| L2713614-3 SW06_SW_20220607 Sampled By: Client on 07-JUN-22 @ 12:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.94 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 15.33 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 202 | | 2.0 | CU | | 10-JUN-22 | R5796500 |
| Conductivity (EC) | 325 | | 1.0 | uS/cm | | 11-JUN-22 | R5797639 |
| Hardness (as CaCO3) | 134 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 7.94 | | 0.10 | pH | | 11-JUN-22 | R5797639 |
| Total Suspended Solids | 6.0 | | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 262 | | 20 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 4.80 | | 0.10 | NTU | | 10-JUN-22 | R5796316 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.6 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-3 SW06_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 95.8 | | 2.0 | mg/L | | 18-JUN-22 | R5804702 |
| Ammonia, Total (as N) | 0.022 | <T | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 5.74 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.061 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | 0.172 | <T | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 1.05 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | 0.0076 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 66.2 | | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0009 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 30.5 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5804000 |
| Total Organic Carbon | 33.4 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.273 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.00129 | <T | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00129 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.0199 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | 0.0000133 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0235 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000020 | <T | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 35.8 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000495 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00074 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000350 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00154 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.556 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00021 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0046 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 10.4 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0500 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000010 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.00141 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00174 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | 0.035 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 6.39 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00416 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-3 SW06_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Selenium (Se)-Total | 0.000210 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 1.91 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 14.8 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.113 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | 21.8 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00008 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00860 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | 0.00002 | <DL | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000533 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00125 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0035 | <T | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000508 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0698 | | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.00121 | <T | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.00125 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0206 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0225 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000140 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 36.2 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000120 | | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00028 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000236 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00136 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.305 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00010 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0046 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 10.5 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.0444 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.00126 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00148 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 6.46 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2713614-3 SW06_SW_20220607 Sampled By: Client on 07-JUN-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Rubidium (Rb)-Dissolved | 0.00399 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000165 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 1.59 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 15.3 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.112 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 21.8 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | 0.000070 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00188 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | 0.000014 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.000513 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00080 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0068 | <T | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000380 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000428 | | 0.000020 | ug/L | 05-JUL-22 | 06-JUL-22 | R5813123 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | 77 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0053 | | 0.0053 | Bq/L | 29-JUN-22 | 13-JUL-22 | R5812947 |
| L2713614-4 SW15_SW_20220607 Sampled By: Client on 07-JUN-22 @ 10:50 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.91 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 15 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 244 | | 2.0 | CU | | 10-JUN-22 | R5796500 |
| Conductivity (EC) | 174 | | 1.0 | uS/cm | | 11-JUN-22 | R5797639 |
| Hardness (as CaCO3) | 87.9 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 7.84 | | 0.10 | pH | | 11-JUN-22 | R5797639 |
| Total Suspended Solids | 10.5 | | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 168 | | 13 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 13.7 | | 0.10 | NTU | | 09-JUN-22 | R5796147 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.6 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 76.0 | | 2.0 | mg/L | | 18-JUN-22 | R5804702 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-4 SW15_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 10:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Ammonia, Total (as N) | 0.016 | <T | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 4.93 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.038 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 1.01 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | 0.0081 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 0.85 | <T | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0011 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 35.1 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5804000 |
| Total Organic Carbon | 38.5 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.586 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.000345 | <DL | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00126 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.0193 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | 0.0000228 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0140 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000022 | <T | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 22.1 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000850 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00124 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000430 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00166 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.859 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00041 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0036 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 8.62 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0406 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.000530 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00202 | <T | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | 0.045 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 2.37 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00283 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000180 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-4 SW15_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 10:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Silicon (Si)-Total | 3.10 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000005 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 4.99 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.0547 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | 5.2 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00015 | | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.0179 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000429 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00215 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0045 | <T | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000798 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0906 | | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.000305 | <DL | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.00109 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0161 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0120 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000140 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 21.2 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00026 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000166 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00116 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.295 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00014 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0034 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 8.47 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.0302 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | 0.000010 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.000480 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00126 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 2.27 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00187 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2713614-4 SW15_SW_20220607 Sampled By: Client on 07-JUN-22 @ 10:50 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Selenium (Se)-Dissolved | 0.000145 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 2.13 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 4.99 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.0523 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 6.0 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00006 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | 0.000060 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00244 | | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.000366 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00088 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0028 | <DL | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000380 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | 94 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| L2713614-5 SW16_SW_20220607 Sampled By: Client on 07-JUN-22 @ 09:20 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.36 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 11.6 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 48.5 | | 2.0 | CU | | 10-JUN-22 | R5796500 |
| Conductivity (EC) | 58.4 | | 1.0 | uS/cm | | 11-JUN-22 | R5797639 |
| Hardness (as CaCO3) | 26.1 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 7.49 | | 0.10 | pH | | 11-JUN-22 | R5797639 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 54 | | 10 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 3.06 | | 0.10 | NTU | | 09-JUN-22 | R5796147 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.6 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 26.8 | | 2.0 | mg/L | | 18-JUN-22 | R5804702 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.030 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-JUN-22 | R5797317 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-5 SW16_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 09:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 0.382 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | 0.0014 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0002 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 13.8 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5804000 |
| Total Organic Carbon | 13.2 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.135 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00041 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.00863 | <DL | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0040 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000005 | <DL | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 6.87 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000155 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00080 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000095 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00112 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.217 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00011 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0008 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 2.17 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0128 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.000125 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00074 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 0.71 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00158 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000105 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 2.28 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 2.15 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.0201 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-5 SW16_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 09:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00342 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.0000815 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00055 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000144 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0478 | | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.000030 | <DL | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.000394 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.00836 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0040 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000010 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 6.84 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00022 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000032 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00094 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.102 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0010 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 2.19 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.00366 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.000104 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00060 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 0.71 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00147 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000105 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 2.18 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 2.24 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.0201 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|----------|-----------|-----------|----------|
| L2713614-5 SW16_SW_20220607 Sampled By: Client on 07-JUN-22 @ 09:20 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Sulfur (S)-Dissolved | 0.8 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00096 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.0000800 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00034 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0012 | <DL | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000152 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | 28 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| L2713614-6 SW17_SW_20220607 Sampled By: Client on 07-JUN-22 @ 10:20 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.91 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 14.5 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 70.6 | | 2.0 | CU | | 10-JUN-22 | R5796500 |
| Conductivity (EC) | 79.6 | | 1.0 | uS/cm | | 16-JUN-22 | R5804326 |
| Hardness (as CaCO3) | 38.9 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 7.57 | | 0.10 | pH | | 16-JUN-22 | R5804326 |
| Total Suspended Solids | 1.0 | <DL | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 74 | | 13 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 2.70 | | 0.10 | NTU | | 09-JUN-22 | R5796147 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.0 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 35.8 | | 2.0 | mg/L | | 17-JUN-22 | R5804550 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 3.94 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | 0.012 | <DL | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 0.536 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | 0.0011 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 6.45 | | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-6 SW17_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 10:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0001 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 15.1 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5803956 |
| Total Organic Carbon | 16.4 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.135 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.000050 | <DL | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00053 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.0106 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0050 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000008 | <DL | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 10.0 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000145 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00044 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000090 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00114 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.222 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00010 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0010 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 3.47 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0134 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.000165 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00080 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | 0.015 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 0.89 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00154 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000130 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 2.30 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 2.23 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.0238 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | 0.4 | <DL | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-6 SW17_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 10:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Titanium (Ti)-Total | 0.00334 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000101 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00055 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0025 | <DL | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000170 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0510 | | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.000035 | <DL | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.000519 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0102 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0050 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 9.88 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00025 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000044 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00100 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.120 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0012 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 3.46 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.00664 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.000130 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00076 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | 0.005 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 0.87 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00153 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000105 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 2.22 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 2.29 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.0233 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 1.2 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|--------|----------|-----------|-----------|----------|
| L2713614-6 SW17_SW_20220607 Sampled By: Client on 07-JUN-22 @ 10:20 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tin (Sn)-Dissolved | 0.000030 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00104 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.0000980 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00038 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0054 | <T | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000186 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | 39 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| L2713614-7 SW21A_SW_20220607 Sampled By: Client on 07-JUN-22 @ 13:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.08 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 17.56 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 158 | | 2.0 | CU | | 10-JUN-22 | R5796500 |
| Conductivity (EC) | 260 | | 1.0 | uS/cm | | 16-JUN-22 | R5804326 |
| Hardness (as CaCO3) | 129 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 7.97 | | 0.10 | pH | | 16-JUN-22 | R5804326 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 192 | | 13 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 2.55 | | 0.10 | NTU | | 09-JUN-22 | R5796147 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.2 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 105 | | 2.0 | mg/L | | 17-JUN-22 | R5804550 |
| Ammonia, Total (as N) | 0.010 | <T | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 5.75 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.043 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | 0.176 | <T | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | 0.003 | <DL | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 0.974 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | 0.0176 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 67.1 | | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-7 SW21A_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 13:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 25.5 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5804000 |
| Total Organic Carbon | 28.4 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0986 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.000285 | <DL | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00121 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.0187 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | 0.0000085 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0220 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000020 | <T | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 31.0 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000165 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00046 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000225 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00112 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.440 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00009 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0052 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 12.1 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0406 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.00108 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00154 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | 0.040 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 1.66 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00148 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000315 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 1.02 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 6.51 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.103 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | 7.8 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00311 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | 0.00002 | <DL | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000637 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00095 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-7 SW21A_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 13:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Zinc (Zn)-Total | 0.0050 | <T | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000348 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0238 | <T | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.000265 | <DL | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.00125 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0193 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0205 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000130 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 31.5 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00025 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000176 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00124 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.322 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0058 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 12.3 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.0360 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.00101 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00164 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | 0.040 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 1.70 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00152 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000265 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 0.935 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 6.65 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.100 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 9.0 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | 0.000360 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00102 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | 0.000012 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.000645 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|--------|----------|-----------|-----------|----------|
| L2713614-7 SW21A_SW_20220607 Sampled By: Client on 07-JUN-22 @ 13:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Vanadium (V)-Dissolved | 0.00082 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0046 | <T | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000400 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 11-JUN-22 | R5803091 |
| Chemical Oxygen Demand | 67 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| L2713614-8 SW22A_SW_20220607 Sampled By: Client on 07-JUN-22 @ 13:05 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.06 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 17.41 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 126 | | 2.0 | CU | | 10-JUN-22 | R5796500 |
| Conductivity (EC) | 468 | | 1.0 | uS/cm | | 16-JUN-22 | R5804326 |
| Hardness (as CaCO3) | 180 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 7.98 | | 0.10 | pH | | 16-JUN-22 | R5804326 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 312 | | 20 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 3.00 | | 0.10 | NTU | | 09-JUN-22 | R5796147 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.6 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 123 | | 2.0 | mg/L | | 17-JUN-22 | R5804550 |
| Ammonia, Total (as N) | 0.008 | <T | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 4.11 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.052 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | 0.024 | <T | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 0.986 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | 0.0024 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 33.4 | | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0004 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 23.3 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5803956 |
| Total Organic Carbon | 26.6 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.101 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-8 SW22A_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 13:05 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Antimony (Sb)-Total | 0.00156 | <T | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00172 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.0228 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | 0.0000038 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0345 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000012 | <DL | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 50.4 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000630 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00050 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000325 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00144 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.444 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00012 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0056 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 13.4 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0506 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.00163 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00160 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | 0.060 | | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 9.42 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00505 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000250 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 1.17 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 22.7 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.170 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | 34.4 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00344 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | 0.00004 | <DL | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000796 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00095 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0070 | <T | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000288 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-8 SW22A_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 13:05 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0220 | <T | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.00135 | <T | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.00163 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0238 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0315 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000070 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 49.2 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000510 | | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000248 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00098 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.268 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0062 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 13.8 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.0493 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.00136 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00136 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | 0.025 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 9.32 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00536 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.00241 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 1.12 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000040 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 23.3 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.170 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 36.8 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | 0.000015 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00144 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | 0.000024 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.000784 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00076 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0056 | <T | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000350 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Speciated Metals | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2713614-8 SW22A_SW_20220607 Sampled By: Client on 07-JUN-22 @ 13:05 Matrix: SW | | | | | | | |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | <0.000020 | | 0.000020 | ug/L | 05-JUL-22 | 06-JUL-22 | R5813123 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 11-JUN-22 | R5803091 |
| Chemical Oxygen Demand | 61 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0070 | | 0.0070 | Bq/L | 29-JUN-22 | 13-JUL-22 | R5812947 |
| Report Remarks : Se qualified DTSE: Dissolved Se concentration exceeds total. Positive bias on D-Se suspected due to signal enhancement from volatile selenium species. Contact ALS if an alternative test to address this interference is needed. | | | | | | | |
| L2713614-9 SW23_SW_20220607 Sampled By: Client on 07-JUN-22 @ 11:35 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.82 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 14.85 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 213 | | 2.0 | CU | | 10-JUN-22 | R5796500 |
| Conductivity (EC) | 241 | | 1.0 | uS/cm | | 16-JUN-22 | R5804326 |
| Hardness (as CaCO3) | 116 | | 0.51 | mg/L | | 17-JUN-22 | |
| pH | 6.66 | | 0.10 | pH | | 16-JUN-22 | R5804326 |
| Total Suspended Solids | 5.5 | | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 202 | | 13 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 5.05 | | 0.10 | NTU | | 09-JUN-22 | R5796147 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 334 | | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 84.0 | | 2.0 | mg/L | | 17-JUN-22 | R5804550 |
| Ammonia, Total (as N) | 0.014 | <T | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 10.1 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.084 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | 0.134 | <T | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 1.01 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | 0.0071 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 103 | | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0011 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 34.5 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5803956 |
| Total Organic Carbon | 34.7 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-9 SW23_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 11:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.276 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.000435 | <DL | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00124 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.0191 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | 0.0000095 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0190 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000017 | <T | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 29.9 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000340 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00074 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000305 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00140 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.565 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00021 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0038 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 9.66 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0512 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.000700 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00170 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | 0.040 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 3.47 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00282 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000250 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 2.05 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 8.36 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.0827 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | 11.2 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00825 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | 0.00001 | <DL | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000408 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00130 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0050 | <T | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000478 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-9 SW23_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 11:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0766 | | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.000415 | <DL | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.00127 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0212 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0185 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000190 | <T | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 30.1 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000050 | <DL | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00030 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000200 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00120 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.327 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00010 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0040 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 9.95 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.0500 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.000646 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00150 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | 0.285 | DTC | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 3.85 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00276 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000210 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 1.74 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000040 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 8.66 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.0816 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 12.2 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | 0.000075 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00204 | | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | 0.000008 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.000409 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00088 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0154 | DTC | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000390 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|---------|------------|---------|----------|-----------|-----------|----------|
| L2713614-9 SW23_SW_20220607 Sampled By: Client on 07-JUN-22 @ 11:35 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | 83 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| Radiological Parameters | | | | | | | |
| Ra-226 | 0.0078 | | 0.0062 | Bq/L | 29-JUN-22 | 13-JUL-22 | R5812947 |
| L2713614-10 SW24_SW_20220607 Sampled By: Client on 07-JUN-22 @ 11:45 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.84 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 14.63 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 206 | | 2.0 | CU | | 10-JUN-22 | R5796500 |
| Conductivity (EC) | <0.2 | <W | 1.0 | uS/cm | | 16-JUN-22 | R5804326 |
| Hardness (as CaCO3) | 134 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 7.84 | | 0.10 | pH | | 16-JUN-22 | R5804326 |
| Total Suspended Solids | 6.5 | | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 242 | | 20 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 5.35 | | 0.10 | NTU | | 10-JUN-22 | R5796316 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.4 | | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 86.8 | | 2.0 | mg/L | | 17-JUN-22 | R5804550 |
| Ammonia, Total (as N) | 0.024 | <T | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 5.27 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.065 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | 0.428 | | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 1.10 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | 0.0052 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 24.2 | | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0008 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 35.0 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5803956 |
| Total Organic Carbon | 34.1 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.272 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.00130 | <T | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00130 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-10 SW24_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 11:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Barium (Ba)-Total | 0.0206 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | 0.0000114 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0245 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000016 | <DL | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 37.1 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000445 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00070 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000330 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00160 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.589 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00021 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0044 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 10.7 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0516 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.00140 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00168 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 6.50 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00410 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000265 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 1.93 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 15.4 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.113 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | 22.6 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00802 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | 0.00002 | <DL | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000539 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00130 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0035 | <T | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000508 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0696 | | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.00121 | <T | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-10 SW24_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 11:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Arsenic (As)-Dissolved | 0.00122 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0208 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0225 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000150 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 35.8 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000140 | | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00024 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000236 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00132 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.310 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00010 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0046 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 10.8 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.0439 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.00126 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00148 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 6.63 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00395 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000235 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 1.57 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 15.8 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.113 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 22.0 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | 0.000030 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00186 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | 0.000012 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.000512 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00080 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0040 | <T | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000384 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000392 | | 0.000020 | ug/L | 05-JUL-22 | 06-JUL-22 | R5813123 |
| Aggregate Organics | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L2713614-10 SW24_SW_20220607 Sampled By: Client on 07-JUN-22 @ 11:45 Matrix: SW | | | | | | | |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | 81 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| Radiological Parameters | | | | | | | |
| Ra-226 | 0.0075 | | 0.0047 | Bq/L | 29-JUN-22 | 13-JUL-22 | R5812947 |
| L2713614-11 SW27_SW_20220607 Sampled By: Client on 07-JUN-22 @ 13:45 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.32 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 18.24 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 117 | | 2.0 | CU | | 10-JUN-22 | R5796565 |
| Conductivity (EC) | 219 | | 1.0 | uS/cm | | 17-JUN-22 | R5804550 |
| Hardness (as CaCO3) | 119 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 7.96 | | 0.10 | pH | | 17-JUN-22 | R5804550 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 164 | | 13 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 6.12 | | 0.10 | NTU | | 10-JUN-22 | R5796316 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.6 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 114 | | 2.0 | mg/L | | 17-JUN-22 | R5804550 |
| Ammonia, Total (as N) | 0.006 | <T | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 1.96 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.049 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | 0.032 | <T | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 0.813 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | 0.0013 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 2.75 | <T | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 21.3 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5804000 |
| Total Organic Carbon | 23.8 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.231 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.000080 | <DL | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00102 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-11 SW27_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 13:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Barium (Ba)-Total | 0.0171 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | 0.0000047 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0130 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000009 | <DL | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 30.2 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000360 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00066 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000175 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00176 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.381 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00014 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0030 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 10.4 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0366 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.000755 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00146 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 1.37 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00164 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000190 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 2.53 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 2.90 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.0621 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | 1.2 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00651 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000569 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00120 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0075 | <T | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000372 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0298 | <T | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.000070 | <DL | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-11 SW27_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 13:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Arsenic (As)-Dissolved | 0.000972 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0163 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0120 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000060 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 30.0 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00022 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000108 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00160 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.167 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0030 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 10.6 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.0303 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.000762 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00138 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 1.40 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00129 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000185 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 2.21 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000040 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 3.01 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.0620 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 1.8 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | 0.000035 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00248 | | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | 0.000006 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.000538 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00080 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0080 | <T | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000454 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 11-JUN-22 | R5803091 |
| Chemical Oxygen Demand | 54 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|---------|----------|-----------|-----------|----------|
| L2713614-11 SW27_SW_20220607 Sampled By: Client on 07-JUN-22 @ 13:45 Matrix: SW | | | | | | | |
| Aggregate Organics | | | | | | | |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| L2713614-12 SW02_SW_20220607 Sampled By: Client on 07-JUN-22 @ 09:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.61 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 14.44 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 157 | | 2.0 | CU | | 10-JUN-22 | R5796565 |
| Conductivity (EC) | 86.2 | | 1.0 | uS/cm | | 17-JUN-22 | R5804550 |
| Hardness (as CaCO3) | 54.7 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 7.51 | | 0.10 | pH | | 17-JUN-22 | R5804550 |
| Total Suspended Solids | 1.5 | <DL | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 90 | | 13 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 0.49 | | 0.10 | NTU | | 10-JUN-22 | R5796316 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.2 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 46.4 | | 2.0 | mg/L | | 17-JUN-22 | R5804550 |
| Ammonia, Total (as N) | 0.002 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 1.87 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.030 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | 0.056 | <T | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 0.776 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 2.30 | <T | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 26.5 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5804000 |
| Total Organic Carbon | 28.5 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0632 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00059 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.00776 | <DL | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0070 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-12 SW02_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 09:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 12.8 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000040 | <DL | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00028 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000070 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00036 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.174 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00006 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0010 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 5.24 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0106 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.000115 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00052 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 0.23 | <DL | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.000732 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000145 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 1.13 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 0.780 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.0212 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00001 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00110 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.0000205 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00025 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0020 | <DL | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000142 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0440 | | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.000020 | <DL | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.000578 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.00802 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-12 SW02_SW_20220607 Sampled By: Client on 07-JUN-22 @ 09:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Boron (B)-Dissolved | 0.0065 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000020 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 13.0 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00017 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000058 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00032 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.159 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0014 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 5.40 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.00898 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.000096 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00052 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 0.24 | <DL | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.000744 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000105 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 1.19 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 0.830 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.0215 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 0.2 | <DL | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00048 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.0000205 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00026 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0018 | <DL | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000154 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | 67 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| L2713614-13 SW10_SW_20220607 Sampled By: Client on 07-JUN-22 @ 10:35 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2713614-13 SW10_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 10:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.98 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 17.49 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 205 | | 2.0 | CU | | 10-JUN-22 | R5796565 |
| Conductivity (EC) | 159 | | 1.0 | uS/cm | | 17-JUN-22 | R5804550 |
| Hardness (as CaCO3) | 88.7 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 7.71 | | 0.10 | pH | | 17-JUN-22 | R5804550 |
| Total Suspended Solids | 4.0 | | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 148 | | 13 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 3.82 | | 0.10 | NTU | | 10-JUN-22 | R5796316 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.2 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 78.4 | | 2.0 | mg/L | | 17-JUN-22 | R5804550 |
| Ammonia, Total (as N) | 0.008 | <T | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 2.23 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.046 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | 0.070 | <T | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 1.12 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | 0.0049 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 17.7 | | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0009 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0010 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 34.1 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5803956 |
| Total Organic Carbon | 33.2 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.223 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.000050 | <DL | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00118 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.0146 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | 0.0000198 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0140 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000010 | <DL | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 21.2 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000265 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00068 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000230 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-13 SW10_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 10:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Copper (Cu)-Total | 0.00114 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.511 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00016 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0034 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 8.89 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0274 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.000405 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00174 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | 0.045 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 1.02 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00176 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000200 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 1.60 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 3.84 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.0533 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | 0.2 | <DL | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | 0.00007 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00581 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000318 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00130 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0040 | <T | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000426 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0502 | | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.000055 | <DL | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.00112 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0144 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0140 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000070 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 20.8 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00030 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2713614-13 SW10_SW_20220607 Sampled By: Client on 07-JUN-22 @ 10:35 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Cobalt (Co)-Dissolved | 0.000150 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00096 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.322 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00008 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0034 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 8.90 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.0214 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.000354 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00152 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | 0.030 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 1.01 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00123 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000210 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 1.35 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000040 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 3.95 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.0515 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 0.8 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00005 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | 0.000030 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00162 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.000299 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00094 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0050 | <T | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000444 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000453 | | 0.000020 | ug/L | 05-JUL-22 | 06-JUL-22 | R5813123 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | 80 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| L2713614-14 SW20_SW_20220607 Sampled By: Client on 07-JUN-22 @ 09:45 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.03 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 15.14 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2713614-14 SW20_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 09:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 162 | | 2.0 | CU | | 10-JUN-22 | R5796565 |
| Conductivity (EC) | 176 | | 1.0 | uS/cm | | 17-JUN-22 | R5804550 |
| Hardness (as CaCO3) | 91.2 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 7.76 | | 0.10 | pH | | 17-JUN-22 | R5804550 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 144 | | 13 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 4.26 | | 0.10 | NTU | | 10-JUN-22 | R5796316 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.0 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 83.4 | | 2.0 | mg/L | | 17-JUN-22 | R5804550 |
| Ammonia, Total (as N) | 0.006 | <T | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 7.27 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.029 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 0.966 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | 0.0042 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 0.85 | <T | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0003 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0007 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 30.2 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5803956 |
| Total Organic Carbon | 30.2 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.231 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.000050 | <DL | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00097 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.0153 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | 0.0000142 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0135 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000006 | <DL | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 22.2 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000330 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00072 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000210 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00092 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.480 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00015 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-14 SW20_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 09:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Lithium (Li)-Total | 0.0030 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 8.74 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0258 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.000375 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00162 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | 0.015 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 1.03 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00163 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000190 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 2.31 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 5.05 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.0542 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | 0.4 | <DL | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | 0.00005 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00613 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000219 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00125 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0045 | <T | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000434 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0380 | | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.000045 | <DL | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.000926 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0152 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0130 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000080 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 21.2 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00027 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000144 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00078 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.280 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2713614-14 SW20_SW_20220607 Sampled By: Client on 07-JUN-22 @ 09:45 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lead (Pb)-Dissolved | 0.00007 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0032 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 9.30 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.0238 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.000350 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00140 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 1.06 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00124 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000175 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 2.05 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 5.43 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.0542 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 0.6 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | 0.000015 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00158 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.000202 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00070 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0042 | <T | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000388 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000495 | | 0.000020 | ug/L | 11-JUL-22 | 11-JUL-22 | R5818919 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | 71 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | 2.2 | | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0068 | | 0.0068 | Bq/L | 29-JUN-22 | 13-JUL-22 | R5812947 |
| L2713614-15 SW25_SW_20220607 Sampled By: Client on 07-JUN-22 @ 12:20 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.48 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 18.94 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 122 | | 2.0 | CU | | 10-JUN-22 | R5796565 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2713614-15 SW25_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 12:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Conductivity (EC) | 183 | | 1.0 | uS/cm | | 17-JUN-22 | R5804550 |
| Hardness (as CaCO3) | 101 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 7.88 | | 0.10 | pH | | 17-JUN-22 | R5804550 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 134 | | 13 | mg/L | | 10-JUN-22 | R5796737 |
| Turbidity | 5.82 | | 0.10 | NTU | | 10-JUN-22 | R5796316 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 92.8 | | 2.0 | mg/L | | 17-JUN-22 | R5804550 |
| Ammonia, Total (as N) | 0.008 | <T | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 3.51 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.048 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 0.719 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 2.25 | <T | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 23.4 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5803956 |
| Total Organic Carbon | 23.5 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.243 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.000080 | <DL | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00093 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.0153 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | 0.0000104 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0115 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000010 | <DL | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 25.8 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000360 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00062 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000170 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00180 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.371 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00015 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0024 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-15 SW25_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 12:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Magnesium (Mg)-Total | 8.95 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0368 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.000610 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00138 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | 0.005 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 1.21 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00173 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000165 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 2.38 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000005 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 2.14 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.0506 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | 0.4 | <DL | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00682 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | 0.00001 | <DL | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000408 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00125 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0085 | <T | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000378 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0310 | | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.000065 | <DL | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.000927 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0149 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0110 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000060 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 25.3 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00019 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000104 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00158 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.150 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2713614-15 SW25_SW_20220607 Sampled By: Client on 07-JUN-22 @ 12:20 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lithium (Li)-Dissolved | 0.0024 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 9.14 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.0296 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.000558 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00118 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 1.21 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00118 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000170 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 2.09 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 2.20 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.0502 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 1.0 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00236 | | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | 0.000006 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.000408 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00082 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0068 | <T | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000388 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | 50 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| L2713614-16 SW26_SW_20220607 Sampled By: Client on 07-JUN-22 @ 11:55 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.43 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 17.44 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 121 | | 2.0 | CU | | 10-JUN-22 | R5796565 |
| Conductivity (EC) | 192 | | 1.0 | uS/cm | | 17-JUN-22 | R5804550 |
| Hardness (as CaCO3) | 105 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 7.92 | | 0.10 | pH | | 17-JUN-22 | R5804550 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 10-JUN-22 | R5796728 |
| Total Dissolved Solids | 138 | | 13 | mg/L | | 10-JUN-22 | R5796737 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-16 SW26_SW_20220607 Sampled By: Client on 07-JUN-22 @ 11:55 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Turbidity | 5.96 | | 0.10 | NTU | | 10-JUN-22 | R5796316 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.4 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 99.2 | | 2.0 | mg/L | | 17-JUN-22 | R5804550 |
| Ammonia, Total (as N) | 0.016 | <T | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 3.55 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.040 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 0.660 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | 0.0011 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 2.80 | <T | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 23.0 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5803956 |
| Total Organic Carbon | 22.5 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.242 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.000090 | <DL | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00103 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.0156 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | 0.0000085 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0115 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000009 | <DL | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 27.1 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000400 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00062 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000180 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00186 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.412 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00015 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0024 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 9.28 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0306 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.000630 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00150 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-16 SW26_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 11:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 1.20 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00165 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000175 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 2.29 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 2.25 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.0557 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | 0.8 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00683 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | 0.00001 | <DL | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000453 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00125 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0115 | | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000408 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.0320 | | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.000060 | <DL | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.000967 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0148 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0110 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000040 | <DL | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 26.5 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000096 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00160 | <T | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.168 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0026 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 9.39 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.0229 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799192 |
| Molybdenum (Mo)-Dissolved | 0.000616 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2713614-16 SW26_SW_20220607 Sampled By: Client on 07-JUN-22 @ 11:55 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Nickel (Ni)-Dissolved | 0.00122 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 1.20 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00115 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000175 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 2.00 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000040 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 2.27 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.0538 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 1.2 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00006 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00272 | | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | 0.000008 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.000438 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00078 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0074 | <T | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000414 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | 36 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| L2713614-17 SW28A_SW_20220607 Sampled By: Client on 07-JUN-22 @ 11:05 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.45 | | 0.10 | pH | | 12-JUN-22 | R5796864 |
| Temperature, Client Supplied | 18.58 | | 0 | Degree C | | 12-JUN-22 | R5796864 |
| Physical Tests | | | | | | | |
| Color, True | 196 | | 2.0 | CU | | 10-JUN-22 | R5796565 |
| Conductivity (EC) | 128 | | 1.0 | uS/cm | | 17-JUN-22 | R5804550 |
| Hardness (as CaCO3) | 87.3 | | 0.51 | mg/L | | 17-JUN-22 | |
| pH | 7.76 | | 0.10 | pH | | 17-JUN-22 | R5804550 |
| Total Suspended Solids | 4.0 | | 3.0 | mg/L | | 11-JUN-22 | R5796824 |
| Total Dissolved Solids | 120 | | 13 | mg/L | | 11-JUN-22 | R5796832 |
| Turbidity | 2.16 | | 0.10 | NTU | | 10-JUN-22 | R5796316 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.8 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | 68.4 | | 2.0 | mg/L | | 17-JUN-22 | R5804550 |
| Ammonia, Total (as N) | 0.010 | <T | 0.0050 | mg/L | | 14-JUN-22 | R5800406 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-17 SW28A_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 11:05 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 15-JUN-22 | |
| Chloride (Cl) | 1.14 | | 0.10 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Fluoride (F) | 0.043 | | 0.020 | mg/L | 10-JUN-22 | 11-JUN-22 | R5797317 |
| Nitrate (as N) | 0.006 | <DL | 0.020 | mg/L | | 11-JUN-22 | R5797317 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUN-22 | R5797317 |
| Total Kjeldahl Nitrogen | 1.25 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | 0.45 | <T | 0.30 | mg/L | | 11-JUN-22 | R5797317 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0008 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 30.5 | | 0.50 | mg/L | 10-JUN-22 | 16-JUN-22 | R5804000 |
| Total Organic Carbon | 32.1 | | 0.50 | mg/L | | 20-JUN-22 | R5805171 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.141 | | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | 0.000050 | <DL | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | 0.00100 | <T | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.0111 | | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | 0.0000085 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0115 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | 0.000006 | <DL | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 17.6 | | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | 0.0000205 | | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00052 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | 0.000140 | <DL | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | 0.00086 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.378 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | 0.00013 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | 0.0024 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 7.95 | | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | 0.0210 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799298 |
| Molybdenum (Mo)-Total | 0.000440 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | 0.00114 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | 0.005 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | 0.72 | | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.00181 | | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | 0.000165 | <T | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | 1.09 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-17 SW28A_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 11:05 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | 1.04 | | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | 0.0396 | | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | 0.00008 | <DL | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Titanium (Ti)-Total | 0.00377 | | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | 0.000249 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | 0.00080 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0025 | <DL | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | 0.000368 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | 0.114 | | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | 0.000035 | <DL | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | 0.000963 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | 0.0117 | | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0110 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | 0.0000755 | DTC | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | 21.6 | | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | 0.0000110 | | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00053 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | 0.000150 | <DL | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | 0.00080 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | 0.326 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | 0.00027 | DTC | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | 0.0028 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | 8.13 | | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | 0.0222 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | 0.000005 | <T | 0.0000050 | mg/L | | 14-JUN-22 | R5799219 |
| Molybdenum (Mo)-Dissolved | 0.000392 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | 0.00116 | <DL | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | 0.74 | | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | 0.00194 | | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | 0.000190 | <T | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|-------|-----------|-----------|----------|
| L2713614-17 SW28A_SW_20220607 Sampled By: Client on 07-JUN-22 @ 11:05 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Silicon (Si)-Dissolved | 1.27 | | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | 0.0000040 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | 1.08 | | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | 0.0422 | | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | 0.4 | <DL | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | 0.00006 | <DL | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Tin (Sn)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | 0.00358 | | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | 0.000256 | <DL | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | 0.00070 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.121 | DTC | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | 0.000334 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | 80 | | 10 | mg/L | 10-JUN-22 | 14-JUN-22 | R5799616 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |
| L2713614-18 TB_SW_20220607 Sampled By: Client on 07-JUN-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 10-JUN-22 | R5796565 |
| Conductivity (EC) | <0.2 | <W | 1.0 | uS/cm | | 17-JUN-22 | R5804550 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 16-JUN-22 | |
| pH | 5.29 | | 0.10 | pH | | 17-JUN-22 | R5804550 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 11-JUN-22 | R5796824 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 11-JUN-22 | R5796832 |
| Turbidity | <0.10 | | 0.10 | NTU | | 10-JUN-22 | R5796316 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.2 | <DL | 2.0 | mg/L | | 16-JUN-22 | R5803740 |
| Alkalinity, Total (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 17-JUN-22 | R5804550 |
| Ammonia, Total (as N) | 0.006 | <T | 0.0050 | mg/L | | 17-JUN-22 | R5805074 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799097 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799097 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 13-JUN-22 | R5799097 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 13-JUN-22 | R5799097 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 10-JUN-22 | 15-JUN-22 | R5802881 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 10-JUN-22 | 13-JUN-22 | R5799278 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 13-JUN-22 | R5799097 |
| Cyanides | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-18 TB_SW_20220607 Sampled By: Client on 07-JUN-22 @ 12:00 Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0001 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Total | 0.0002 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Cyanide, Free | 0.0002 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801258 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 07-JUN-22 | 15-JUN-22 | R5802420 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 17-JUN-22 | R5804774 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0016 | <DL | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00060 | mg/L | | 14-JUN-22 | R5801156 |
| Arsenic (As)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Barium (Ba)-Total | 0.00004 | <DL | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Boron (B)-Total | 0.0010 | <DL | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 14-JUN-22 | R5801156 |
| Calcium (Ca)-Total | 0.006 | <DL | 0.20 | mg/L | | 14-JUN-22 | R5801156 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 14-JUN-22 | R5801156 |
| Chromium (Cr)-Total | 0.00010 | <DL | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 14-JUN-22 | R5801156 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Iron (Fe)-Total | 0.0055 | <DL | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Lead (Pb)-Total | <0.00001 | <W | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Magnesium (Mg)-Total | 0.0016 | <DL | 0.020 | mg/L | | 14-JUN-22 | R5801156 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUN-22 | R5799356 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Nickel (Ni)-Total | <0.00002 | <W | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 14-JUN-22 | R5801156 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Rubidium (Rb)-Total | 0.000002 | <DL | 0.00020 | mg/L | | 14-JUN-22 | R5801156 |
| Selenium (Se)-Total | <0.000005 | <W | 0.000050 | mg/L | | 14-JUN-22 | R5801156 |
| Silicon (Si)-Total | <0.002 | <W | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Sodium (Na)-Total | <0.005 | <W | 0.10 | mg/L | | 14-JUN-22 | R5801156 |
| Strontium (Sr)-Total | <0.000005 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 14-JUN-22 | R5801156 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 14-JUN-22 | R5801156 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 14-JUN-22 | R5801156 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2713614-18 TB_SW_20220607 | | | | | | | |
| Sampled By: Client on 07-JUN-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Titanium (Ti)-Total | 0.00009 | <DL | 0.0020 | mg/L | | 14-JUN-22 | R5801156 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 14-JUN-22 | R5801156 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 14-JUN-22 | R5801156 |
| Vanadium (V)-Total | <0.00005 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Zinc (Zn)-Total | 0.0030 | <T | 0.0030 | mg/L | | 14-JUN-22 | R5801156 |
| Zirconium (Zr)-Total | <0.000002 | <W | 0.0010 | mg/L | | 14-JUN-22 | R5801156 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 10-JUN-22 | R5796546 |
| Aluminum (Al)-Dissolved | <0.0002 | <W | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 15-JUN-22 | R5802222 |
| Arsenic (As)-Dissolved | <0.0000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Barium (Ba)-Dissolved | <0.000005 | <W | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Boron (B)-Dissolved | 0.0010 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 15-JUN-22 | R5802222 |
| Calcium (Ca)-Dissolved | <0.002 | <W | 0.20 | mg/L | | 15-JUN-22 | R5802222 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 15-JUN-22 | R5802222 |
| Chromium (Cr)-Dissolved | 0.00008 | <DL | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 15-JUN-22 | R5802222 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Iron (Fe)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Magnesium (Mg)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 15-JUN-22 | R5802222 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUN-22 | R5799219 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 15-JUN-22 | R5802222 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 15-JUN-22 | R5802222 |
| Silicon (Si)-Dissolved | 0.005 | <DL | 0.050 | mg/L | | 15-JUN-22 | R5802222 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |
| Sodium (Na)-Dissolved | <0.005 | <W | 0.10 | mg/L | | 15-JUN-22 | R5802222 |
| Strontium (Sr)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 15-JUN-22 | R5802222 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 15-JUN-22 | R5802222 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 15-JUN-22 | R5802222 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|--------|-------|-----------|-----------|----------|
| L2713614-18 TB_SW_20220607 Sampled By: Client on 07-JUN-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 15-JUN-22 | R5802222 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 15-JUN-22 | R5802222 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.0050 | mg/L | | 15-JUN-22 | R5802222 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Zinc (Zn)-Dissolved | 0.0002 | <DL | 0.0030 | mg/L | | 15-JUN-22 | R5802222 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 15-JUN-22 | R5802222 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUN-22 | R5801196 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 10-JUN-22 | 13-JUN-22 | R5798201 |
| Oil and Grease, Total | 1.0 | | 1.0 | mg/L | 14-JUN-22 | 14-JUN-22 | R5800225 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------------|--------------------------|-----------|---|
| Laboratory Control Sample | Sulfur (S)-Total | MES | L2713614-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Dissolved | MS-B | L2713614-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Dissolved | MS-B | L2713614-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Dissolved | MS-B | L2713614-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Aluminum (Al)-Total | MS-B | L2713614-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Total | MS-B | L2713614-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Total | MS-B | L2713614-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Manganese (Mn)-Total | MS-B | L2713614-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Total | MS-B | L2713614-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Total | MS-B | L2713614-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sulfate (SO4) | MS-B | L2713614-18 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| DTC | Dissolved concentration exceeds total. Results were confirmed by re-analysis. |
| MES | Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME). |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|----------|--|--|
| ACY-MISA-TB | Effluent | Acidity (as CaCO3) | APHA 2310 B-POTENTIOMETRIC TITRATION |
| Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample. | | | |
| ALK-MISA-TB | Effluent | Alkalinity, Total (as CaCO3) | APHA 2320 B-Auto-Pot. Titration |
| This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. | | | |
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
| All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation. | | | |
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
| This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis. | | | |
| CN-T-MISA-CFA-WT | Effluent | Total Cyanide by CFA | ISO 14403-2:2012 (modified) |
| This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. | | | |
| Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero. | | | |
| CN-WAD-MISA-CFA-WT | Effluent | Weak Acid Dissociable Cyanide by CFA | APHA 4500-CN CYANIDE (modified) |
| This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) | | | |

Reference Information

cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

| | | | |
|--------|-------|------------------------|------------|
| COD-TB | Water | Chemical Oxygen Demand | APHA 5220D |
|--------|-------|------------------------|------------|

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

| | | | |
|-----------|-------|--------------|-------------|
| COLOUR-TB | Water | Colour, True | APHA 2120 C |
|-----------|-------|--------------|-------------|

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

| | | | |
|--------|----------|-----------------------------------|--------------------------|
| DOC-WT | Effluent | Dissolved Organic Carbon for MISA | APHA 5310 B-Instrumental |
|--------|----------|-----------------------------------|--------------------------|

| | | | |
|------------|----------|-------------------|-----------------------|
| EC-MISA-TB | Effluent | Conductivity (EC) | APHA 2510 B-ELECTRODE |
|------------|----------|-------------------|-----------------------|

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

| | | | |
|-----------|-------|-------------------------|-----------------|
| F-IC-N-TB | Water | Fluoride in Water by IC | EPA 300.1 (mod) |
|-----------|-------|-------------------------|-----------------|

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

| | | | |
|------------------|----------|----------------------------------|-------------|
| HARDNESS-CALC-TB | Effluent | Hardness (as CaCO ₃) | CALCULATION |
|------------------|----------|----------------------------------|-------------|

| | | | |
|-----------|----------|---------------------------------|-------------|
| HG-DIS-WT | Effluent | Mercury (Hg)-Dissolved for MISA | SW846 7470A |
|-----------|----------|---------------------------------|-------------|

| | | | |
|-----------|----------|-----------------------------|-------------|
| HG-TOT-WT | Effluent | Mercury (Hg)-Total for MISA | SW846 7470A |
|-----------|----------|-----------------------------|-------------|

| | | | |
|----------------|-------|---------------------------------------|----------------|
| MEHG-T-GCAF-VA | Water | Total Methylmercury in Water by GCAFS | EPA 1630 (mod) |
|----------------|-------|---------------------------------------|----------------|

This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".

| | | | |
|---------------|----------|----------------------------------|------------------------|
| MET-D-MISA-TB | Effluent | Dissolved Metals in Water (MISA) | APHA 3030B/6020B (mod) |
|---------------|----------|----------------------------------|------------------------|

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

| | | | |
|---------------|----------|------------------------------|-----------------------|
| MET-T-MISA-TB | Effluent | Total Metals in Water (MISA) | EPA 200.2/6020B (mod) |
|---------------|----------|------------------------------|-----------------------|

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

| | | | |
|---------------|----------|------------------------------|--|
| NH3-MISA-F-TB | Effluent | Ammonia by Discrete Analyzer | catnr 157/158 062217/99321057 (modified) |
|---------------|----------|------------------------------|--|

Ammonia is determined by Flow-injection analysis with fluorescence detection

| | | | |
|-------------------|----------|--------------------|-------------|
| NH3-UNION-CALC-TB | Effluent | Un-ionized ammonia | Calculation |
|-------------------|----------|--------------------|-------------|

| | | | |
|----------------|----------|------------------------|-----------------|
| NO2-MISA-IC-TB | Effluent | Nitrite in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|----------------|----------|------------------------|-----------------|
| NO3-MISA-IC-TB | Effluent | Nitrate in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|------------|----------|--------------------------------|--------------------------------|
| OGG-TOT-WT | Effluent | Oil and Grease, Total for MISA | APHA 5520 B-Hexane Gravimetric |
|------------|----------|--------------------------------|--------------------------------|

| | | | |
|--------------|-------|----|---------------------------|
| PH-CLIENT-TB | Water | pH | Result supplied by Client |
|--------------|-------|----|---------------------------|

| | | | |
|------------|----------|----|-----------------------|
| PH-MISA-TB | Effluent | pH | APHA 4500-H-ELECTRODE |
|------------|----------|----|-----------------------|

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

Reference Information

| | | | |
|--|----------|-------------------------------------|--------------------------------|
| PO4-DO-COL-TB | Water | Dissolved Orthophosphate | APHA 4500-P B, F, G (modified) |
| Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection. | | | |
| RA226-MMER-FC | Water | Ra226 by Alpha Scint, MDC=0.01 Bq/L | EPA 903.1 |
| SO4-MISA-IC-TB | Effluent | Sulfate in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| TDS-MISA-TB | Effluent | Total Dissolved Solids | APHA 2540 C (modified) |
| Aqueous matrices are analyzed using gravimetry and evaporation | | | |
| TEMP-CLIENT-TB | Water | Temperature | Result supplied by Client |
| TKN-F-TB | Water | TKN in Water by Fluorescence | catnr 157/158, 062818/99334821 |
| Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection | | | |
| TOC-WT | Water | Total Organic Carbon | APHA 5310B |
| Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector. | | | |
| TSS-MISA-TB | Effluent | Total Suspended Solids | APHA 2540 D (modified) |
| Aqueous matrices are analyzed using gravimetry | | | |
| TURBIDITY-TB | Water | Turbidity | APHA 2130 B-Nephelometer |
| Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle. | | | |

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |
| FC | ALS ENVIRONMENTAL - FORT COLLINS, COLORADO, USA |
| VA | ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| BOD-TB | | | | | | | | |
| Water | | | | | | | | |
| Batch | R5801196 | | | | | | | |
| WG3738025-12 | DUP | L2713614-3 | | | | | | |
| Biochemical Oxygen Demand | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 30 | 10-JUN-22 |
| WG3738025-8 | DUP | L2713614-5 | | | | | | |
| Biochemical Oxygen Demand | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 30 | 10-JUN-22 |
| WG3738025-10 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 104.4 | | % | | 85-115 | 10-JUN-22 |
| WG3738025-6 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 96.9 | | % | | 85-115 | 10-JUN-22 |
| WG3738025-5 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 10-JUN-22 |
| WG3738025-9 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 10-JUN-22 |
| Batch | R5803091 | | | | | | | |
| WG3738412-3 | DUP | L2713653-5 | | | | | | |
| Biochemical Oxygen Demand | | 7.5 | 3.8 | J | mg/L | 3.7 | 10 | 11-JUN-22 |
| WG3738412-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 97.0 | | % | | 85-115 | 11-JUN-22 |
| WG3738412-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 11-JUN-22 |
| CL-L-IC-N-TB | | | | | | | | |
| Water | | | | | | | | |
| Batch | R5797317 | | | | | | | |
| WG3738100-3 | DUP | L2713605-1 | | | | | | |
| Chloride (Cl) | | 1.30 | 1.28 | | mg/L | 1.5 | 20 | 11-JUN-22 |
| WG3738100-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 98.0 | | % | | 90-110 | 11-JUN-22 |
| WG3738100-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 11-JUN-22 |
| WG3738100-4 | MS | L2713605-2 | | | | | | |
| Chloride (Cl) | | | 104.4 | | % | | 75-125 | 11-JUN-22 |
| Batch | R5799097 | | | | | | | |
| WG3738103-3 | DUP | L2713614-18 | | | | | | |
| Chloride (Cl) | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 20 | 13-JUN-22 |
| WG3738103-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 104.0 | | % | | 90-110 | 13-JUN-22 |
| WG3738103-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 13-JUN-22 |
| COD-TB | | | | | | | | |
| Water | | | | | | | | |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| COD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5798201 | | | | | | | |
| WG3738144-3 | DUP | L2713731-1 | | | | | | |
| Chemical Oxygen Demand | | 13 | 15 | | mg/L | 13 | 20 | 13-JUN-22 |
| WG3738144-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 99.7 | | % | | 85-115 | 13-JUN-22 |
| WG3738144-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 13-JUN-22 |
| WG3738144-4 | MS | L2713731-2 | | | | | | |
| Chemical Oxygen Demand | | | 107.2 | | % | | 75-125 | 13-JUN-22 |
| Batch | R5799616 | | | | | | | |
| WG3738134-3 | DUP | L2713605-1 | | | | | | |
| Chemical Oxygen Demand | | 75 | 76 | | mg/L | 1.9 | 20 | 14-JUN-22 |
| WG3738134-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 108.7 | | % | | 85-115 | 14-JUN-22 |
| WG3738134-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 14-JUN-22 |
| WG3738134-4 | MS | L2713605-2 | | | | | | |
| Chemical Oxygen Demand | | | 106.5 | | % | | 75-125 | 14-JUN-22 |
| COLOUR-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5796500 | | | | | | | |
| WG3737773-3 | DUP | L2713666-1 | | | | | | |
| Color, True | | 7.6 | 7.5 | | CU | 1.3 | 20 | 10-JUN-22 |
| WG3737773-2 | LCS | | | | | | | |
| Color, True | | | 99.6 | | % | | 85-115 | 10-JUN-22 |
| WG3737773-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 10-JUN-22 |
| Batch | R5796565 | | | | | | | |
| WG3738086-3 | DUP | L2713614-11 | | | | | | |
| Color, True | | 117 | 124 | | CU | 6.1 | 20 | 10-JUN-22 |
| WG3738086-2 | LCS | | | | | | | |
| Color, True | | | 99.4 | | % | | 85-115 | 10-JUN-22 |
| WG3738086-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 10-JUN-22 |
| F-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5797317 | | | | | | | |
| WG3738100-3 | DUP | L2713605-1 | | | | | | |
| Fluoride (F) | | 0.048 | 0.044 | | mg/L | 7.8 | 20 | 11-JUN-22 |
| WG3738100-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L2713614

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|-----------------|--------------------|-----------|-----------|-------|--------|---------|-----------|
| F-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5797317 | | | | | | | |
| WG3738100-2 | LCS | | | | | | | |
| Fluoride (F) | | | 105.6 | | % | | 90-110 | 11-JUN-22 |
| WG3738100-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 11-JUN-22 |
| Batch | R5799097 | | | | | | | |
| WG3738103-3 | DUP | L2713614-18 | | | | | | |
| Fluoride (F) | | <0.020 | <0.020 | RPD-NA | mg/L | N/A | 20 | 13-JUN-22 |
| WG3738103-2 | LCS | | | | | | | |
| Fluoride (F) | | | 103.5 | | % | | 90-110 | 13-JUN-22 |
| WG3738103-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 13-JUN-22 |
| MEHG-T-GCAF-VA | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5813123 | | | | | | | |
| WG3747137-2 | DUP | L2713614-8 | | | | | | |
| Methylmercury (as MeHg)-Total | | <0.000020 | <0.000020 | RPD-NA | ug/L | N/A | 30 | 06-JUL-22 |
| WG3747137-3 | LCS | | | | | | | |
| Methylmercury (as MeHg)-Total | | | 91.3 | | % | | 70-130 | 06-JUL-22 |
| WG3747137-1 | MB | | | | | | | |
| Methylmercury (as MeHg)-Total | | | <0.000020 | | ug/L | | 0.00002 | 06-JUL-22 |
| Batch | R5818919 | | | | | | | |
| WG3748292-2 | DUP | L2714069-2 | | | | | | |
| Methylmercury (as MeHg)-Total | | 0.000703 | 0.000654 | | ug/L | 7.2 | 30 | 11-JUL-22 |
| WG3748292-3 | LCS | | | | | | | |
| Methylmercury (as MeHg)-Total | | | 87.4 | | % | | 70-130 | 11-JUL-22 |
| WG3748292-1 | MB | | | | | | | |
| Methylmercury (as MeHg)-Total | | | <0.000020 | | ug/L | | 0.00002 | 11-JUL-22 |
| WG3748292-4 | MS | L2712261-4 | | | | | | |
| Methylmercury (as MeHg)-Total | | | 80.5 | | % | | 60-140 | 11-JUL-22 |
| PO4-DO-COL-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5799278 | | | | | | | |
| WG3737779-3 | DUP | L2713653-4 | | | | | | |
| Orthophosphate-Dissolved (as P) | | 0.0018 | 0.0018 | | mg/L | 2.8 | 20 | 13-JUN-22 |
| WG3738094-3 | DUP | L2713614-8 | | | | | | |
| Orthophosphate-Dissolved (as P) | | 0.0024 | 0.0034 | J | mg/L | 0.0010 | 0.002 | 13-JUN-22 |
| WG3737779-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 116.1 | | % | | 80-120 | 13-JUN-22 |
| WG3738094-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L2713614

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|-----------------|-------------------|---------|-----------|-------|-----|--------|-----------|
| PO4-DO-COL-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5799278 | | | | | | | |
| WG3738094-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 100.2 | | % | | 80-120 | 13-JUN-22 |
| WG3737779-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0010 | | mg/L | | 0.001 | 13-JUN-22 |
| WG3738094-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0010 | | mg/L | | 0.001 | 13-JUN-22 |
| TKN-F-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5802881 | | | | | | | |
| WG3738125-3 | DUP | L2713605-1 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.58 | 1.47 | | mg/L | 6.9 | 20 | 15-JUN-22 |
| WG3738127-3 | DUP | L2713731-1 | | | | | | |
| Total Kjeldahl Nitrogen | | 0.531 | 0.457 | | mg/L | 15 | 20 | 15-JUN-22 |
| WG3738125-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 96.7 | | % | | 75-125 | 15-JUN-22 |
| WG3738127-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 96.1 | | % | | 75-125 | 15-JUN-22 |
| WG3738125-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 15-JUN-22 |
| WG3738127-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 15-JUN-22 |
| WG3738125-4 | MS | L2713605-2 | | | | | | |
| Total Kjeldahl Nitrogen | | | 127.0 | | % | | 70-130 | 15-JUN-22 |
| WG3738127-4 | MS | L2713731-2 | | | | | | |
| Total Kjeldahl Nitrogen | | | 114.5 | | % | | 70-130 | 15-JUN-22 |
| TOC-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5804774 | | | | | | | |
| WG3739647-3 | DUP | L2713768-1 | | | | | | |
| Total Organic Carbon | | 3.54 | 3.56 | | mg/L | 0.5 | 20 | 17-JUN-22 |
| WG3739647-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 107.0 | | % | | 80-120 | 17-JUN-22 |
| WG3739647-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 17-JUN-22 |
| WG3739647-4 | MS | L2713768-1 | | | | | | |
| Total Organic Carbon | | | 107.1 | | % | | 70-130 | 17-JUN-22 |
| Batch | R5805171 | | | | | | | |
| WG3739262-3 | DUP | L2713614-1 | | | | | | |
| Total Organic Carbon | | <0.50 | <0.50 | RPD-NA | mg/L | N/A | 20 | 20-JUN-22 |
| WG3739262-2 | LCS | | | | | | | |



Quality Control Report

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| TOC-WT | | Water | | | | | | |
| Batch | R5805171 | | | | | | | |
| WG3739262-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 107.8 | | % | | 80-120 | 20-JUN-22 |
| WG3739262-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 20-JUN-22 |
| WG3739262-4 | MS | L2713614-1 | | | | | | |
| Total Organic Carbon | | | 108.2 | | % | | 70-130 | 20-JUN-22 |
| TURBIDITY-TB | | Water | | | | | | |
| Batch | R5796147 | | | | | | | |
| WG3737772-3 | DUP | L2713614-5 | | | | | | |
| Turbidity | | 3.06 | 2.83 | | NTU | 7.8 | 15 | 09-JUN-22 |
| WG3737772-2 | LCS | | | | | | | |
| Turbidity | | | 98.0 | | % | | 85-115 | 09-JUN-22 |
| WG3737772-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 09-JUN-22 |
| Batch | R5796316 | | | | | | | |
| WG3737984-3 | DUP | L2713605-3 | | | | | | |
| Turbidity | | 3.20 | 3.10 | | NTU | 3.2 | 15 | 10-JUN-22 |
| WG3737984-2 | LCS | | | | | | | |
| Turbidity | | | 99.0 | | % | | 85-115 | 10-JUN-22 |
| WG3737984-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 10-JUN-22 |
| ACY-MISA-TB | | Effluent | | | | | | |
| Batch | R5803740 | | | | | | | |
| WG3738080-3 | DUP | L2713614-11 | | | | | | |
| Acidity (as CaCO3) | | 0.6 | 0.4 | RPD-NA | mg/L | N/A | 20 | 16-JUN-22 |
| WG3737759-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 114.6 | | % | | 85-115 | 16-JUN-22 |
| WG3738080-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 107.8 | | % | | 85-115 | 16-JUN-22 |
| WG3737759-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | 2.0 | | mg/L | | 3 | 16-JUN-22 |
| WG3738080-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | 2.2 | | mg/L | | 3 | 16-JUN-22 |
| ALK-MISA-TB | | Effluent | | | | | | |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------------------|------------|-------------------|---------|-----------|-------|-----|--------|-----------|
| ALK-MISA-TB Effluent | | | | | | | | |
| Batch R5804550 | | | | | | | | |
| WG3738074-3 | DUP | L2713614-6 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 35.8 | 36.2 | | mg/L | 1.4 | 20 | 17-JUN-22 |
| Alkalinity, Phenolphthalein | | <0.2 | <0.2 | RPD-NA | mg/L | N/A | 25 | 17-JUN-22 |
| WG3738074-2 | LCS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 106.7 | | % | | 85-115 | 17-JUN-22 |
| WG3738074-1 | MB | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | <0.2 | | mg/L | | 2 | 17-JUN-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 17-JUN-22 |
| Batch R5804702 | | | | | | | | |
| WG3739199-8 | LCS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 111.3 | | % | | 85-115 | 18-JUN-22 |
| WG3739199-7 | MB | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | <0.2 | | mg/L | | 2 | 18-JUN-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 18-JUN-22 |
| CN-FREE-MISA-CFA-WT Effluent | | | | | | | | |
| Batch R5801258 | | | | | | | | |
| WG3739435-3 | DUP | L2712867-2 | | | | | | |
| Cyanide, Free | | <0.0001 | 0.0001 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| WG3739435-7 | DUP | L2713614-4 | | | | | | |
| Cyanide, Free | | 0.0011 | 0.0011 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| WG3739435-2 | LCS | | | | | | | |
| Cyanide, Free | | | 92.7 | | % | | 80-120 | 14-JUN-22 |
| WG3739435-6 | LCS | | | | | | | |
| Cyanide, Free | | | 92.5 | | % | | 80-120 | 14-JUN-22 |
| WG3739435-1 | MB | | | | | | | |
| Cyanide, Free | | | <0.0001 | | mg/L | | 0.002 | 14-JUN-22 |
| WG3739435-5 | MB | | | | | | | |
| Cyanide, Free | | | 0.0002 | | mg/L | | 0.002 | 14-JUN-22 |
| WG3739435-4 | MS | L2712867-2 | | | | | | |
| Cyanide, Free | | | 99.5 | | % | | 75-125 | 14-JUN-22 |
| WG3739435-8 | MS | L2713614-4 | | | | | | |
| Cyanide, Free | | | 102.7 | | % | | 75-125 | 14-JUN-22 |
| CN-T-MISA-CFA-WT Effluent | | | | | | | | |
| Batch R5801258 | | | | | | | | |
| WG3739435-3 | DUP | L2712867-2 | | | | | | |
| Cyanide, Total | | <0.0002 | <0.0002 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| WG3739435-7 | DUP | L2713614-4 | | | | | | |



Quality Control Report

Workorder: L2713614

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| CN-T-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5801258 | | | | | | | |
| WG3739435-7 | DUP | L2713614-4 | | | | | | |
| Cyanide, Total | | 0.0012 | 0.0010 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| WG3739435-2 | LCS | | | | | | | |
| Cyanide, Total | | | 94.5 | | % | | 80-120 | 14-JUN-22 |
| WG3739435-6 | LCS | | | | | | | |
| Cyanide, Total | | | 96.9 | | % | | 80-120 | 14-JUN-22 |
| WG3739435-1 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 14-JUN-22 |
| WG3739435-5 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 14-JUN-22 |
| WG3739435-4 | MS | L2712867-2 | | | | | | |
| Cyanide, Total | | | 96.8 | | % | | 75-125 | 14-JUN-22 |
| WG3739435-8 | MS | L2713614-4 | | | | | | |
| Cyanide, Total | | | 93.7 | | % | | 75-125 | 14-JUN-22 |
| CN-WAD-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5801258 | | | | | | | |
| WG3739435-3 | DUP | L2712867-2 | | | | | | |
| Cyanide, Weak Acid Diss | | <0.0001 | <0.0001 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| WG3739435-7 | DUP | L2713614-4 | | | | | | |
| Cyanide, Weak Acid Diss | | 0.0005 | 0.0005 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| WG3739435-2 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 102.7 | | % | | 80-120 | 14-JUN-22 |
| WG3739435-6 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 99.8 | | % | | 80-120 | 14-JUN-22 |
| WG3739435-1 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 14-JUN-22 |
| WG3739435-5 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 14-JUN-22 |
| WG3739435-4 | MS | L2712867-2 | | | | | | |
| Cyanide, Weak Acid Diss | | | 102.9 | | % | | 75-125 | 14-JUN-22 |
| WG3739435-8 | MS | L2713614-4 | | | | | | |
| Cyanide, Weak Acid Diss | | | 105.4 | | % | | 75-125 | 14-JUN-22 |
| DOC-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5802420 | | | | | | | |
| WG3739467-3 | DUP | WG3739467-5 | | | | | | |
| Dissolved Organic Carbon | | 5.26 | 5.18 | | mg/L | 1.7 | 25 | 15-JUN-22 |
| WG3739467-2 | LCS | | | | | | | |
| Dissolved Organic Carbon | | | 103.3 | | % | | 70-130 | 15-JUN-22 |



Quality Control Report

Workorder: L2713614

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|--------|--------------------|--------|-----------|-------|-----|--------|-----------|
| DOC-WT Effluent | | | | | | | | |
| Batch R5802420 | | | | | | | | |
| WG3739467-1 MB | | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 15-JUN-22 |
| Batch R5803956 | | | | | | | | |
| WG3740079-3 DUP | | WG3740079-5 | | | | | | |
| Dissolved Organic Carbon | | 2.94 | 3.45 | | mg/L | 16 | 25 | 16-JUN-22 |
| WG3740079-2 LCS | | | | | | | | |
| Dissolved Organic Carbon | | | 102.7 | | % | | 70-130 | 16-JUN-22 |
| WG3740079-1 MB | | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 16-JUN-22 |
| Batch R5804000 | | | | | | | | |
| WG3740076-3 DUP | | WG3740076-5 | | | | | | |
| Dissolved Organic Carbon | | 49.8 | 52.9 | | mg/L | 6.0 | 25 | 16-JUN-22 |
| WG3740076-2 LCS | | | | | | | | |
| Dissolved Organic Carbon | | | 97.0 | | % | | 70-130 | 16-JUN-22 |
| WG3740076-1 MB | | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 16-JUN-22 |
| EC-MISA-TB Effluent | | | | | | | | |
| Batch R5797639 | | | | | | | | |
| WG3737757-2 LCS | | | | | | | | |
| Conductivity (EC) | | | 100.9 | | % | | 90-110 | 11-JUN-22 |
| WG3737757-1 MB | | | | | | | | |
| Conductivity (EC) | | | 0.2 | | uS/cm | | 2 | 11-JUN-22 |
| Batch R5804326 | | | | | | | | |
| WG3741016-2 LCS | | | | | | | | |
| Conductivity (EC) | | | 101.1 | | % | | 90-110 | 16-JUN-22 |
| WG3741016-1 MB | | | | | | | | |
| Conductivity (EC) | | | 0.2 | | uS/cm | | 2 | 16-JUN-22 |
| Batch R5804550 | | | | | | | | |
| WG3738074-2 LCS | | | | | | | | |
| Conductivity (EC) | | | 99.6 | | % | | 90-110 | 17-JUN-22 |
| WG3738074-1 MB | | | | | | | | |
| Conductivity (EC) | | | 0.4 | | uS/cm | | 2 | 17-JUN-22 |
| HG-DIS-WT Effluent | | | | | | | | |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|-----------|-----------|-------|-----|----------|-----------|
| HG-DIS-WT | | Effluent | | | | | | |
| Batch | R5799192 | | | | | | | |
| WG3739174-3 | DUP | L2713605-1 | | | | | | |
| Mercury (Hg)-Dissolved | | 0.000005 | 0.000005 | | mg/L | 9.5 | 20 | 14-JUN-22 |
| WG3739174-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 107.0 | | % | | 80-120 | 14-JUN-22 |
| WG3739174-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.000005 | 14-JUN-22 |
| WG3739174-4 | MS | L2713605-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 99.0 | | % | | 70-130 | 14-JUN-22 |
| Batch | R5799219 | | | | | | | |
| WG3739176-3 | DUP | L2713614-17 | | | | | | |
| Mercury (Hg)-Dissolved | | 0.000005 | 0.000005 | | mg/L | 1.6 | 20 | 14-JUN-22 |
| WG3739176-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 111.0 | | % | | 80-120 | 14-JUN-22 |
| WG3739176-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.000005 | 14-JUN-22 |
| WG3739176-4 | MS | L2713614-18 | | | | | | |
| Mercury (Hg)-Dissolved | | | 99.9 | | % | | 70-130 | 14-JUN-22 |
| HG-TOT-WT | | Effluent | | | | | | |
| Batch | R5799298 | | | | | | | |
| WG3739169-3 | DUP | L2713605-1 | | | | | | |
| Mercury (Hg)-Total | | 0.000010 | 0.000010 | | mg/L | 2.2 | 20 | 14-JUN-22 |
| WG3739169-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 103.0 | | % | | 80-120 | 14-JUN-22 |
| WG3739169-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.000005 | 14-JUN-22 |
| WG3739169-4 | MS | L2713605-2 | | | | | | |
| Mercury (Hg)-Total | | | 106.8 | | % | | 70-130 | 14-JUN-22 |
| Batch | R5799356 | | | | | | | |
| WG3739171-3 | DUP | L2713614-18 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| WG3739171-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 110.0 | | % | | 80-120 | 14-JUN-22 |
| WG3739171-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.000005 | 14-JUN-22 |
| WG3739171-4 | MS | L2713614-18 | | | | | | |
| Mercury (Hg)-Total | | | 105.4 | | % | | 70-130 | 14-JUN-22 |
| MET-D-MISA-TB | Effluent | | | | | | | |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|-----------|-----------|-------|------|-------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5802222 | | | | | | | |
| WG3737804-7 | DUP | L2713614-11 | | | | | | |
| Aluminum (Al)-Dissolved | | 0.0298 | 0.0272 | | mg/L | 9.2 | 20 | 15-JUN-22 |
| Antimony (Sb)-Dissolved | | 0.000070 | 0.000070 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Arsenic (As)-Dissolved | | 0.000972 | 0.000980 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Barium (Ba)-Dissolved | | 0.0163 | 0.0164 | | mg/L | 0.5 | 20 | 15-JUN-22 |
| Beryllium (Be)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Bismuth (Bi)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Boron (B)-Dissolved | | 0.0120 | 0.0125 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Cadmium (Cd)-Dissolved | | 0.0000060 | 0.0000060 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Calcium (Ca)-Dissolved | | 30.0 | 29.7 | | mg/L | 1.2 | 20 | 15-JUN-22 |
| Cesium (Cs)-Dissolved | | 0.0000020 | 0.0000020 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Chromium (Cr)-Dissolved | | 0.00022 | 0.00019 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Cobalt (Co)-Dissolved | | 0.000108 | 0.000108 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Copper (Cu)-Dissolved | | 0.00160 | 0.00156 | | mg/L | 2.9 | 20 | 15-JUN-22 |
| Iron (Fe)-Dissolved | | 0.167 | 0.165 | | mg/L | 1.7 | 20 | 15-JUN-22 |
| Lead (Pb)-Dissolved | | 0.00005 | 0.00005 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Lithium (Li)-Dissolved | | 0.0030 | 0.0032 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Magnesium (Mg)-Dissolved | | 10.6 | 10.7 | | mg/L | 0.9 | 20 | 15-JUN-22 |
| Manganese (Mn)-Dissolved | | 0.0303 | 0.0300 | | mg/L | 0.9 | 20 | 15-JUN-22 |
| Molybdenum (Mo)-Dissolved | | 0.000762 | 0.000744 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Nickel (Ni)-Dissolved | | 0.00138 | 0.00130 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Phosphorus (P)-Dissolved | | 0.010 | 0.005 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Potassium (K)-Dissolved | | 1.40 | 1.38 | | mg/L | 1.1 | 20 | 15-JUN-22 |
| Rubidium (Rb)-Dissolved | | 0.00129 | 0.00131 | | mg/L | 1.1 | 20 | 15-JUN-22 |
| Selenium (Se)-Dissolved | | 0.000185 | 0.000205 | | mg/L | 11 | 20 | 15-JUN-22 |
| Silicon (Si)-Dissolved | | 2.21 | 2.30 | | mg/L | 4.0 | 20 | 15-JUN-22 |
| Silver (Ag)-Dissolved | | 0.0000040 | 0.0000040 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Sodium (Na)-Dissolved | | 3.01 | 2.98 | | mg/L | 1.1 | 20 | 15-JUN-22 |
| Strontium (Sr)-Dissolved | | 0.0620 | 0.0618 | | mg/L | 0.3 | 20 | 15-JUN-22 |
| Sulfur (S)-Dissolved | | 1.8 | 2.2 | J | mg/L | 0.43 | 1 | 15-JUN-22 |
| Tellurium (Te)-Dissolved | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Thallium (Tl)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Thorium (Th)-Dissolved | | 0.00004 | 0.00005 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Tin (Sn)-Dissolved | | 0.000035 | 0.000035 | | mg/L | | | 15-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5802222 | | | | | | | |
| WG3737804-7 | DUP | L2713614-11 | | | | | | |
| Tin (Sn)-Dissolved | | 0.000035 | 0.000035 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Titanium (Ti)-Dissolved | | 0.00248 | 0.00236 | | mg/L | 5.1 | 20 | 15-JUN-22 |
| Tungsten (W)-Dissolved | | 0.000006 | 0.000008 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Uranium (U)-Dissolved | | 0.000538 | 0.000559 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Vanadium (V)-Dissolved | | 0.00080 | 0.00080 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| Zinc (Zn)-Dissolved | | 0.0080 | 0.0082 | | mg/L | 1.5 | 20 | 15-JUN-22 |
| Zirconium (Zr)-Dissolved | | 0.000454 | 0.000386 | RPD-NA | mg/L | N/A | 20 | 15-JUN-22 |
| WG3737804-10 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 106.1 | | % | | 80-120 | 15-JUN-22 |
| Antimony (Sb)-Dissolved | | | 101.1 | | % | | 80-120 | 15-JUN-22 |
| Arsenic (As)-Dissolved | | | 103.9 | | % | | 80-120 | 15-JUN-22 |
| Barium (Ba)-Dissolved | | | 105.1 | | % | | 80-120 | 15-JUN-22 |
| Beryllium (Be)-Dissolved | | | 98.5 | | % | | 80-120 | 15-JUN-22 |
| Bismuth (Bi)-Dissolved | | | 104.7 | | % | | 80-120 | 15-JUN-22 |
| Boron (B)-Dissolved | | | 96.3 | | % | | 80-120 | 15-JUN-22 |
| Cadmium (Cd)-Dissolved | | | 99.2 | | % | | 80-120 | 15-JUN-22 |
| Calcium (Ca)-Dissolved | | | 103.4 | | % | | 80-120 | 15-JUN-22 |
| Cesium (Cs)-Dissolved | | | 102.0 | | % | | 80-120 | 15-JUN-22 |
| Chromium (Cr)-Dissolved | | | 104.2 | | % | | 80-120 | 15-JUN-22 |
| Cobalt (Co)-Dissolved | | | 101.0 | | % | | 80-120 | 15-JUN-22 |
| Copper (Cu)-Dissolved | | | 99.0 | | % | | 80-120 | 15-JUN-22 |
| Iron (Fe)-Dissolved | | | 107.4 | | % | | 80-120 | 15-JUN-22 |
| Lead (Pb)-Dissolved | | | 102.7 | | % | | 80-120 | 15-JUN-22 |
| Lithium (Li)-Dissolved | | | 99.9 | | % | | 80-120 | 15-JUN-22 |
| Magnesium (Mg)-Dissolved | | | 104.1 | | % | | 80-120 | 15-JUN-22 |
| Manganese (Mn)-Dissolved | | | 102.6 | | % | | 80-120 | 15-JUN-22 |
| Molybdenum (Mo)-Dissolved | | | 102.9 | | % | | 80-120 | 15-JUN-22 |
| Nickel (Ni)-Dissolved | | | 103.6 | | % | | 80-120 | 15-JUN-22 |
| Phosphorus (P)-Dissolved | | | 104.1 | | % | | 70-130 | 15-JUN-22 |
| Potassium (K)-Dissolved | | | 107.4 | | % | | 80-120 | 15-JUN-22 |
| Rubidium (Rb)-Dissolved | | | 107.6 | | % | | 80-120 | 15-JUN-22 |
| Selenium (Se)-Dissolved | | | 106.7 | | % | | 80-120 | 15-JUN-22 |
| Silicon (Si)-Dissolved | | | 109.1 | | % | | 60-140 | 15-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------|--------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | Effluent | | | | | | | |
| Batch | R5802222 | | | | | | | |
| WG3737804-10 | LCS | | | | | | | |
| Silver (Ag)-Dissolved | | | 94.4 | | % | | 80-120 | 15-JUN-22 |
| Sodium (Na)-Dissolved | | | 107.1 | | % | | 80-120 | 15-JUN-22 |
| Strontium (Sr)-Dissolved | | | 101.7 | | % | | 80-120 | 15-JUN-22 |
| Sulfur (S)-Dissolved | | | 102.8 | | % | | 80-120 | 15-JUN-22 |
| Tellurium (Te)-Dissolved | | | 94.0 | | % | | 80-120 | 15-JUN-22 |
| Thallium (Tl)-Dissolved | | | 102.8 | | % | | 80-120 | 15-JUN-22 |
| Thorium (Th)-Dissolved | | | 101.9 | | % | | 80-120 | 15-JUN-22 |
| Tin (Sn)-Dissolved | | | 101.1 | | % | | 80-120 | 15-JUN-22 |
| Titanium (Ti)-Dissolved | | | 101.3 | | % | | 80-120 | 15-JUN-22 |
| Tungsten (W)-Dissolved | | | 103.5 | | % | | 80-120 | 15-JUN-22 |
| Uranium (U)-Dissolved | | | 102.7 | | % | | 80-120 | 15-JUN-22 |
| Vanadium (V)-Dissolved | | | 100.5 | | % | | 80-120 | 15-JUN-22 |
| Zinc (Zn)-Dissolved | | | 103.0 | | % | | 80-120 | 15-JUN-22 |
| Zirconium (Zr)-Dissolved | | | 103.9 | | % | | 80-120 | 15-JUN-22 |
| WG3737804-6 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 103.8 | | % | | 80-120 | 15-JUN-22 |
| Antimony (Sb)-Dissolved | | | 99.7 | | % | | 80-120 | 15-JUN-22 |
| Arsenic (As)-Dissolved | | | 102.9 | | % | | 80-120 | 15-JUN-22 |
| Barium (Ba)-Dissolved | | | 107.2 | | % | | 80-120 | 15-JUN-22 |
| Beryllium (Be)-Dissolved | | | 98.6 | | % | | 80-120 | 15-JUN-22 |
| Bismuth (Bi)-Dissolved | | | 103.1 | | % | | 80-120 | 15-JUN-22 |
| Boron (B)-Dissolved | | | 91.6 | | % | | 80-120 | 15-JUN-22 |
| Cadmium (Cd)-Dissolved | | | 99.0 | | % | | 80-120 | 15-JUN-22 |
| Calcium (Ca)-Dissolved | | | 103.7 | | % | | 80-120 | 15-JUN-22 |
| Cesium (Cs)-Dissolved | | | 100.2 | | % | | 80-120 | 15-JUN-22 |
| Chromium (Cr)-Dissolved | | | 103.5 | | % | | 80-120 | 15-JUN-22 |
| Cobalt (Co)-Dissolved | | | 99.6 | | % | | 80-120 | 15-JUN-22 |
| Copper (Cu)-Dissolved | | | 98.1 | | % | | 80-120 | 15-JUN-22 |
| Iron (Fe)-Dissolved | | | 111.1 | | % | | 80-120 | 15-JUN-22 |
| Lead (Pb)-Dissolved | | | 102.7 | | % | | 80-120 | 15-JUN-22 |
| Lithium (Li)-Dissolved | | | 101.2 | | % | | 80-120 | 15-JUN-22 |
| Magnesium (Mg)-Dissolved | | | 103.8 | | % | | 80-120 | 15-JUN-22 |
| Manganese (Mn)-Dissolved | | | 102.9 | | % | | 80-120 | 15-JUN-22 |
| Molybdenum (Mo)-Dissolved | | | 100.4 | | % | | 80-120 | 15-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5802222 | | | | | | | |
| WG3737804-6 | LCS | | | | | | | |
| Nickel (Ni)-Dissolved | | | 101.3 | | % | | 80-120 | 15-JUN-22 |
| Phosphorus (P)-Dissolved | | | 105.1 | | % | | 70-130 | 15-JUN-22 |
| Potassium (K)-Dissolved | | | 107.3 | | % | | 80-120 | 15-JUN-22 |
| Rubidium (Rb)-Dissolved | | | 105.1 | | % | | 80-120 | 15-JUN-22 |
| Selenium (Se)-Dissolved | | | 102.4 | | % | | 80-120 | 15-JUN-22 |
| Silicon (Si)-Dissolved | | | 105.3 | | % | | 60-140 | 15-JUN-22 |
| Silver (Ag)-Dissolved | | | 93.2 | | % | | 80-120 | 15-JUN-22 |
| Sodium (Na)-Dissolved | | | 105.4 | | % | | 80-120 | 15-JUN-22 |
| Strontium (Sr)-Dissolved | | | 101.9 | | % | | 80-120 | 15-JUN-22 |
| Sulfur (S)-Dissolved | | | 102.2 | | % | | 80-120 | 15-JUN-22 |
| Tellurium (Te)-Dissolved | | | 93.8 | | % | | 80-120 | 15-JUN-22 |
| Thallium (Tl)-Dissolved | | | 104.1 | | % | | 80-120 | 15-JUN-22 |
| Thorium (Th)-Dissolved | | | 102.5 | | % | | 80-120 | 15-JUN-22 |
| Tin (Sn)-Dissolved | | | 100.3 | | % | | 80-120 | 15-JUN-22 |
| Titanium (Ti)-Dissolved | | | 101.0 | | % | | 80-120 | 15-JUN-22 |
| Tungsten (W)-Dissolved | | | 103.9 | | % | | 80-120 | 15-JUN-22 |
| Uranium (U)-Dissolved | | | 102.6 | | % | | 80-120 | 15-JUN-22 |
| Vanadium (V)-Dissolved | | | 99.3 | | % | | 80-120 | 15-JUN-22 |
| Zinc (Zn)-Dissolved | | | 103.9 | | % | | 80-120 | 15-JUN-22 |
| Zirconium (Zr)-Dissolved | | | 102.9 | | % | | 80-120 | 15-JUN-22 |
| WG3737804-5 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | 0.0006 | | mg/L | | 0.005 | 15-JUN-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 15-JUN-22 |
| Arsenic (As)-Dissolved | | | <0.0000002 | | mg/L | | 0.001 | 15-JUN-22 |
| Barium (Ba)-Dissolved | | | <0.000005 | | mg/L | | 0.01 | 15-JUN-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-JUN-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-JUN-22 |
| Boron (B)-Dissolved | | | 0.0015 | | mg/L | | 0.05 | 15-JUN-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000005 | | mg/L | | 0.000017 | 15-JUN-22 |
| Calcium (Ca)-Dissolved | | | <0.002 | | mg/L | | 0.2 | 15-JUN-22 |
| Cesium (Cs)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 15-JUN-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 15-JUN-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 15-JUN-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|------------|-----------|-------|-----|---------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5802222 | | | | | | | |
| WG3737804-5 MB | | | | | | | | |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 15-JUN-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 15-JUN-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 15-JUN-22 |
| Magnesium (Mg)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 15-JUN-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-JUN-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-JUN-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 15-JUN-22 |
| Phosphorus (P)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 15-JUN-22 |
| Potassium (K)-Dissolved | | | 0.01 | | mg/L | | 0.5 | 15-JUN-22 |
| Rubidium (Rb)-Dissolved | | | <0.000002 | | mg/L | | 0.0002 | 15-JUN-22 |
| Selenium (Se)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 15-JUN-22 |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 15-JUN-22 |
| Silver (Ag)-Dissolved | | | <0.0000005 | | mg/L | | 0.0001 | 15-JUN-22 |
| Sodium (Na)-Dissolved | | | <0.005 | | mg/L | | 0.1 | 15-JUN-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-JUN-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 15-JUN-22 |
| Tellurium (Te)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 15-JUN-22 |
| Thallium (Tl)-Dissolved | | | <0.000002 | | mg/L | | 0.0003 | 15-JUN-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 15-JUN-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 15-JUN-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 15-JUN-22 |
| Tungsten (W)-Dissolved | | | <0.000002 | | mg/L | | 0.01 | 15-JUN-22 |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.005 | 15-JUN-22 |
| Vanadium (V)-Dissolved | | | 0.00002 | | mg/L | | 0.001 | 15-JUN-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.003 | 15-JUN-22 |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-JUN-22 |
| WG3737804-9 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 0.0006 | | mg/L | | 0.005 | 15-JUN-22 |
| Antimony (Sb)-Dissolved | | | 0.000005 | | mg/L | | 0.0006 | 15-JUN-22 |
| Arsenic (As)-Dissolved | | | 0.0000020 | | mg/L | | 0.001 | 15-JUN-22 |
| Barium (Ba)-Dissolved | | | <0.000005 | | mg/L | | 0.01 | 15-JUN-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-JUN-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-JUN-22 |
| Boron (B)-Dissolved | | | 0.0010 | | mg/L | | 0.05 | 15-JUN-22 |



Environmental

Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5802222 | | | | | | | |
| WG3737804-9 | MB | | | | | | | |
| Cadmium (Cd)-Dissolved | | | <0.0000005 | | mg/L | | 0.000017 | 15-JUN-22 |
| Calcium (Ca)-Dissolved | | | <0.002 | | mg/L | | 0.2 | 15-JUN-22 |
| Cesium (Cs)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 15-JUN-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 15-JUN-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 15-JUN-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-JUN-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 15-JUN-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 15-JUN-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 15-JUN-22 |
| Magnesium (Mg)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 15-JUN-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-JUN-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-JUN-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 15-JUN-22 |
| Phosphorus (P)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 15-JUN-22 |
| Potassium (K)-Dissolved | | | 0.02 | | mg/L | | 0.5 | 15-JUN-22 |
| Rubidium (Rb)-Dissolved | | | 0.000004 | | mg/L | | 0.0002 | 15-JUN-22 |
| Selenium (Se)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 15-JUN-22 |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 15-JUN-22 |
| Silver (Ag)-Dissolved | | | <0.0000005 | | mg/L | | 0.0001 | 15-JUN-22 |
| Sodium (Na)-Dissolved | | | <0.005 | | mg/L | | 0.1 | 15-JUN-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 15-JUN-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 15-JUN-22 |
| Tellurium (Te)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 15-JUN-22 |
| Thallium (Tl)-Dissolved | | | 0.000004 | | mg/L | | 0.0003 | 15-JUN-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 15-JUN-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 15-JUN-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 15-JUN-22 |
| Tungsten (W)-Dissolved | | | <0.000002 | | mg/L | | 0.01 | 15-JUN-22 |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.005 | 15-JUN-22 |
| Vanadium (V)-Dissolved | | | 0.00004 | | mg/L | | 0.001 | 15-JUN-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.003 | 15-JUN-22 |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 15-JUN-22 |
| WG3737804-8 | MS | L2713614-12 | | | | | | |
| Aluminum (Al)-Dissolved | | | 106.2 | | % | | 70-130 | 15-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5802222 | | | | | | | |
| WG3737804-8 MS | | L2713614-12 | | | | | | |
| Antimony (Sb)-Dissolved | | | 103.2 | | % | | 70-130 | 15-JUN-22 |
| Arsenic (As)-Dissolved | | | 107.3 | | % | | 70-130 | 15-JUN-22 |
| Barium (Ba)-Dissolved | | | 105.3 | | % | | 70-130 | 15-JUN-22 |
| Beryllium (Be)-Dissolved | | | 102.0 | | % | | 70-130 | 15-JUN-22 |
| Bismuth (Bi)-Dissolved | | | 99.1 | | % | | 70-130 | 15-JUN-22 |
| Boron (B)-Dissolved | | | 96.3 | | % | | 70-130 | 15-JUN-22 |
| Cadmium (Cd)-Dissolved | | | 102.8 | | % | | 70-130 | 15-JUN-22 |
| Calcium (Ca)-Dissolved | | | N/A | MS-B | % | | - | 15-JUN-22 |
| Cesium (Cs)-Dissolved | | | 103.1 | | % | | 70-130 | 15-JUN-22 |
| Chromium (Cr)-Dissolved | | | 107.2 | | % | | 70-130 | 15-JUN-22 |
| Cobalt (Co)-Dissolved | | | 104.8 | | % | | 70-130 | 15-JUN-22 |
| Copper (Cu)-Dissolved | | | 102.8 | | % | | 70-130 | 15-JUN-22 |
| Iron (Fe)-Dissolved | | | 103.3 | | % | | 70-130 | 15-JUN-22 |
| Lead (Pb)-Dissolved | | | 103.5 | | % | | 70-130 | 15-JUN-22 |
| Lithium (Li)-Dissolved | | | 101.4 | | % | | 70-130 | 15-JUN-22 |
| Magnesium (Mg)-Dissolved | | | N/A | MS-B | % | | - | 15-JUN-22 |
| Manganese (Mn)-Dissolved | | | 106.4 | | % | | 70-130 | 15-JUN-22 |
| Molybdenum (Mo)-Dissolved | | | 105.3 | | % | | 70-130 | 15-JUN-22 |
| Nickel (Ni)-Dissolved | | | 105.6 | | % | | 70-130 | 15-JUN-22 |
| Phosphorus (P)-Dissolved | | | 108.2 | | % | | 70-130 | 15-JUN-22 |
| Potassium (K)-Dissolved | | | 106.6 | | % | | 70-130 | 15-JUN-22 |
| Rubidium (Rb)-Dissolved | | | 108.6 | | % | | 70-130 | 15-JUN-22 |
| Selenium (Se)-Dissolved | | | 110.0 | | % | | 70-130 | 15-JUN-22 |
| Silicon (Si)-Dissolved | | | 103.7 | | % | | 70-130 | 15-JUN-22 |
| Silver (Ag)-Dissolved | | | 103.3 | | % | | 70-130 | 15-JUN-22 |
| Sodium (Na)-Dissolved | | | 104.9 | | % | | 70-130 | 15-JUN-22 |
| Strontium (Sr)-Dissolved | | | N/A | MS-B | % | | - | 15-JUN-22 |
| Sulfur (S)-Dissolved | | | 101.8 | | % | | 70-130 | 15-JUN-22 |
| Tellurium (Te)-Dissolved | | | 95.4 | | % | | 70-130 | 15-JUN-22 |
| Thallium (Tl)-Dissolved | | | 103.2 | | % | | 70-130 | 15-JUN-22 |
| Thorium (Th)-Dissolved | | | 103.4 | | % | | 70-130 | 15-JUN-22 |
| Tin (Sn)-Dissolved | | | 102.6 | | % | | 70-130 | 15-JUN-22 |
| Titanium (Ti)-Dissolved | | | 106.7 | | % | | 70-130 | 15-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5802222 | | | | | | | |
| WG3737804-8 MS | | L2713614-12 | | | | | | |
| Tungsten (W)-Dissolved | | | 104.4 | | % | | 70-130 | 15-JUN-22 |
| Uranium (U)-Dissolved | | | 103.4 | | % | | 70-130 | 15-JUN-22 |
| Vanadium (V)-Dissolved | | | 103.8 | | % | | 70-130 | 15-JUN-22 |
| Zinc (Zn)-Dissolved | | | 102.4 | | % | | 70-130 | 15-JUN-22 |
| Zirconium (Zr)-Dissolved | | | 103.6 | | % | | 70-130 | 15-JUN-22 |
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5801156 | | | | | | | |
| WG3738000-3 DUP | | L2713614-15 | | | | | | |
| Aluminum (Al)-Total | | 0.243 | 0.244 | | mg/L | 0.5 | 20 | 14-JUN-22 |
| Antimony (Sb)-Total | | 0.000080 | 0.000080 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Arsenic (As)-Total | | 0.00093 | 0.00093 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Barium (Ba)-Total | | 0.0153 | 0.0150 | | mg/L | 1.6 | 20 | 14-JUN-22 |
| Beryllium (Be)-Total | | 0.0000104 | 0.0000066 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Bismuth (Bi)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Boron (B)-Total | | 0.0115 | 0.0110 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Cadmium (Cd)-Total | | 0.000010 | 0.000008 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Calcium (Ca)-Total | | 25.8 | 25.5 | | mg/L | 1.2 | 20 | 14-JUN-22 |
| Cesium (Cs)-Total | | 0.0000360 | 0.0000360 | | mg/L | 0.1 | 20 | 14-JUN-22 |
| Chromium (Cr)-Total | | 0.00062 | 0.00066 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Cobalt (Co)-Total | | 0.000170 | 0.000185 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Copper (Cu)-Total | | 0.00180 | 0.00180 | | mg/L | 0.3 | 20 | 14-JUN-22 |
| Iron (Fe)-Total | | 0.371 | 0.386 | | mg/L | 4.0 | 20 | 14-JUN-22 |
| Lead (Pb)-Total | | 0.00015 | 0.00016 | | mg/L | 6.7 | 20 | 14-JUN-22 |
| Lithium (Li)-Total | | 0.0024 | 0.0024 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Magnesium (Mg)-Total | | 8.95 | 9.01 | | mg/L | 0.6 | 20 | 14-JUN-22 |
| Manganese (Mn)-Total | | 0.0368 | 0.0370 | | mg/L | 0.7 | 20 | 14-JUN-22 |
| Molybdenum (Mo)-Total | | 0.000610 | 0.000580 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Nickel (Ni)-Total | | 0.00138 | 0.00138 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Phosphorus (P)-Total | | 0.005 | 0.005 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Potassium (K)-Total | | 1.21 | 1.21 | | mg/L | 0.0 | 20 | 14-JUN-22 |
| Rubidium (Rb)-Total | | 0.00173 | 0.00177 | | mg/L | 2.0 | 20 | 14-JUN-22 |
| Selenium (Se)-Total | | 0.000165 | 0.000170 | | mg/L | 3.5 | 20 | 14-JUN-22 |
| Silicon (Si)-Total | | 2.38 | 2.34 | | mg/L | 1.6 | 20 | 14-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5801156 | | | | | | | |
| WG3738000-3 | DUP | L2713614-15 | | | | | | |
| Silver (Ag)-Total | | 0.000005 | 0.000005 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Sodium (Na)-Total | | 2.14 | 2.13 | | mg/L | 0.5 | 20 | 14-JUN-22 |
| Strontium (Sr)-Total | | 0.0506 | 0.0510 | | mg/L | 0.8 | 20 | 14-JUN-22 |
| Sulfur (S)-Total | | 0.4 | 0.4 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Tellurium (Te)-Total | | <0.00002 | 0.00002 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Thallium (Tl)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Thorium (Th)-Total | | 0.00005 | 0.00005 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Tin (Sn)-Total | | 0.00001 | 0.00002 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Titanium (Ti)-Total | | 0.00682 | 0.00702 | | mg/L | 2.9 | 20 | 14-JUN-22 |
| Tungsten (W)-Total | | 0.00001 | 0.00001 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Uranium (U)-Total | | 0.000408 | 0.000420 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| Vanadium (V)-Total | | 0.00125 | 0.00130 | | mg/L | 2.4 | 20 | 14-JUN-22 |
| Zinc (Zn)-Total | | 0.0085 | 0.0100 | | mg/L | 19 | 20 | 14-JUN-22 |
| Zirconium (Zr)-Total | | 0.000378 | 0.000368 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| WG3738000-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 101.9 | | % | | 80-120 | 14-JUN-22 |
| Antimony (Sb)-Total | | | 106.3 | | % | | 80-120 | 14-JUN-22 |
| Arsenic (As)-Total | | | 104.4 | | % | | 80-120 | 14-JUN-22 |
| Barium (Ba)-Total | | | 101.7 | | % | | 80-120 | 14-JUN-22 |
| Beryllium (Be)-Total | | | 98.9 | | % | | 80-120 | 14-JUN-22 |
| Bismuth (Bi)-Total | | | 105.9 | | % | | 80-120 | 14-JUN-22 |
| Boron (B)-Total | | | 94.6 | | % | | 80-120 | 14-JUN-22 |
| Cadmium (Cd)-Total | | | 100.9 | | % | | 80-120 | 14-JUN-22 |
| Calcium (Ca)-Total | | | 103.2 | | % | | 80-120 | 14-JUN-22 |
| Cesium (Cs)-Total | | | 104.4 | | % | | 80-120 | 14-JUN-22 |
| Chromium (Cr)-Total | | | 102.0 | | % | | 80-120 | 14-JUN-22 |
| Cobalt (Co)-Total | | | 102.2 | | % | | 80-120 | 14-JUN-22 |
| Copper (Cu)-Total | | | 98.0 | | % | | 80-120 | 14-JUN-22 |
| Iron (Fe)-Total | | | 103.9 | | % | | 80-120 | 14-JUN-22 |
| Lead (Pb)-Total | | | 104.9 | | % | | 80-120 | 14-JUN-22 |
| Lithium (Li)-Total | | | 99.99 | | % | | 80-120 | 14-JUN-22 |
| Magnesium (Mg)-Total | | | 105.1 | | % | | 80-120 | 14-JUN-22 |
| Manganese (Mn)-Total | | | 101.9 | | % | | 80-120 | 14-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5801156 | | | | | | | |
| WG3738000-2 | LCS | | | | | | | |
| Molybdenum (Mo)-Total | | | 105.2 | | % | | 80-120 | 14-JUN-22 |
| Nickel (Ni)-Total | | | 101.5 | | % | | 80-120 | 14-JUN-22 |
| Phosphorus (P)-Total | | | 107.3 | | % | | 80-120 | 14-JUN-22 |
| Potassium (K)-Total | | | 106.1 | | % | | 80-120 | 14-JUN-22 |
| Rubidium (Rb)-Total | | | 99.6 | | % | | 80-120 | 14-JUN-22 |
| Selenium (Se)-Total | | | 103.7 | | % | | 80-120 | 14-JUN-22 |
| Silicon (Si)-Total | | | 100.3 | | % | | 80-120 | 14-JUN-22 |
| Silver (Ag)-Total | | | 98.9 | | % | | 80-120 | 14-JUN-22 |
| Sodium (Na)-Total | | | 108.4 | | % | | 80-120 | 14-JUN-22 |
| Strontium (Sr)-Total | | | 101.9 | | % | | 80-120 | 14-JUN-22 |
| Sulfur (S)-Total | | | 88.9 | | % | | 80-120 | 14-JUN-22 |
| Tellurium (Te)-Total | | | 97.3 | | % | | 80-120 | 14-JUN-22 |
| Thallium (Tl)-Total | | | 105.4 | | % | | 80-120 | 14-JUN-22 |
| Thorium (Th)-Total | | | 103.5 | | % | | 80-120 | 14-JUN-22 |
| Tin (Sn)-Total | | | 103.0 | | % | | 80-120 | 14-JUN-22 |
| Titanium (Ti)-Total | | | 102.5 | | % | | 80-120 | 14-JUN-22 |
| Tungsten (W)-Total | | | 105.1 | | % | | 80-120 | 14-JUN-22 |
| Uranium (U)-Total | | | 104.8 | | % | | 80-120 | 14-JUN-22 |
| Vanadium (V)-Total | | | 102.0 | | % | | 80-120 | 14-JUN-22 |
| Zinc (Zn)-Total | | | 105.3 | | % | | 80-120 | 14-JUN-22 |
| Zirconium (Zr)-Total | | | 101.7 | | % | | 80-120 | 14-JUN-22 |
| WG3738000-6 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 101.3 | | % | | 80-120 | 14-JUN-22 |
| Antimony (Sb)-Total | | | 103.2 | | % | | 80-120 | 14-JUN-22 |
| Arsenic (As)-Total | | | 103.5 | | % | | 80-120 | 14-JUN-22 |
| Barium (Ba)-Total | | | 102.9 | | % | | 80-120 | 14-JUN-22 |
| Beryllium (Be)-Total | | | 97.1 | | % | | 80-120 | 14-JUN-22 |
| Bismuth (Bi)-Total | | | 104.1 | | % | | 80-120 | 14-JUN-22 |
| Boron (B)-Total | | | 92.6 | | % | | 80-120 | 14-JUN-22 |
| Cadmium (Cd)-Total | | | 100.5 | | % | | 80-120 | 14-JUN-22 |
| Calcium (Ca)-Total | | | 101.9 | | % | | 80-120 | 14-JUN-22 |
| Cesium (Cs)-Total | | | 101.5 | | % | | 80-120 | 14-JUN-22 |
| Chromium (Cr)-Total | | | 102.9 | | % | | 80-120 | 14-JUN-22 |
| Cobalt (Co)-Total | | | 100.9 | | % | | 80-120 | 14-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5801156 | | | | | | | |
| WG3738000-6 | LCS | | | | | | | |
| Copper (Cu)-Total | | | 101.1 | | % | | 80-120 | 14-JUN-22 |
| Iron (Fe)-Total | | | 105.9 | | % | | 80-120 | 14-JUN-22 |
| Lead (Pb)-Total | | | 102.6 | | % | | 80-120 | 14-JUN-22 |
| Lithium (Li)-Total | | | 99.5 | | % | | 80-120 | 14-JUN-22 |
| Magnesium (Mg)-Total | | | 104.1 | | % | | 80-120 | 14-JUN-22 |
| Manganese (Mn)-Total | | | 101.9 | | % | | 80-120 | 14-JUN-22 |
| Molybdenum (Mo)-Total | | | 103.7 | | % | | 80-120 | 14-JUN-22 |
| Nickel (Ni)-Total | | | 102.3 | | % | | 80-120 | 14-JUN-22 |
| Phosphorus (P)-Total | | | 107.6 | | % | | 80-120 | 14-JUN-22 |
| Potassium (K)-Total | | | 104.3 | | % | | 80-120 | 14-JUN-22 |
| Rubidium (Rb)-Total | | | 98.8 | | % | | 80-120 | 14-JUN-22 |
| Selenium (Se)-Total | | | 99.3 | | % | | 80-120 | 14-JUN-22 |
| Silicon (Si)-Total | | | 100.7 | | % | | 80-120 | 14-JUN-22 |
| Silver (Ag)-Total | | | 96.6 | | % | | 80-120 | 14-JUN-22 |
| Sodium (Na)-Total | | | 105.4 | | % | | 80-120 | 14-JUN-22 |
| Strontium (Sr)-Total | | | 100.7 | | % | | 80-120 | 14-JUN-22 |
| Sulfur (S)-Total | | | 77.6 | MES | % | | 80-120 | 14-JUN-22 |
| Tellurium (Te)-Total | | | 99.8 | | % | | 80-120 | 14-JUN-22 |
| Thallium (Tl)-Total | | | 102.4 | | % | | 80-120 | 14-JUN-22 |
| Thorium (Th)-Total | | | 101.3 | | % | | 80-120 | 14-JUN-22 |
| Tin (Sn)-Total | | | 101.9 | | % | | 80-120 | 14-JUN-22 |
| Titanium (Ti)-Total | | | 102.6 | | % | | 80-120 | 14-JUN-22 |
| Tungsten (W)-Total | | | 103.1 | | % | | 80-120 | 14-JUN-22 |
| Uranium (U)-Total | | | 104.8 | | % | | 80-120 | 14-JUN-22 |
| Vanadium (V)-Total | | | 102.5 | | % | | 80-120 | 14-JUN-22 |
| Zinc (Zn)-Total | | | 106.6 | | % | | 80-120 | 14-JUN-22 |
| Zirconium (Zr)-Total | | | 102.4 | | % | | 80-120 | 14-JUN-22 |
| WG3738000-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | 0.0016 | | mg/L | | 0.005 | 14-JUN-22 |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 14-JUN-22 |
| Arsenic (As)-Total | | | 0.00002 | | mg/L | | 0.001 | 14-JUN-22 |
| Barium (Ba)-Total | | | 0.00002 | | mg/L | | 0.01 | 14-JUN-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 14-JUN-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 14-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5801156 | | | | | | | |
| WG3738000-1 | MB | | | | | | | |
| Boron (B)-Total | | | 0.0005 | | mg/L | | 0.05 | 14-JUN-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 14-JUN-22 |
| Calcium (Ca)-Total | | | 0.004 | | mg/L | | 0.2 | 14-JUN-22 |
| Cesium (Cs)-Total | | | <0.000000E | | mg/L | | 0.00001 | 14-JUN-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 14-JUN-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 14-JUN-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 14-JUN-22 |
| Iron (Fe)-Total | | | 0.0035 | | mg/L | | 0.02 | 14-JUN-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 14-JUN-22 |
| Lithium (Li)-Total | | | 0.0002 | | mg/L | | 0.05 | 14-JUN-22 |
| Magnesium (Mg)-Total | | | 0.0014 | | mg/L | | 0.02 | 14-JUN-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 14-JUN-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 14-JUN-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 14-JUN-22 |
| Phosphorus (P)-Total | | | <0.005 | | mg/L | | 0.05 | 14-JUN-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 14-JUN-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 14-JUN-22 |
| Selenium (Se)-Total | | | 0.000015 | | mg/L | | 0.00005 | 14-JUN-22 |
| Silicon (Si)-Total | | | 0.026 | | mg/L | | 0.1 | 14-JUN-22 |
| Silver (Ag)-Total | | | 0.000001 | | mg/L | | 0.0001 | 14-JUN-22 |
| Sodium (Na)-Total | | | 0.005 | | mg/L | | 0.1 | 14-JUN-22 |
| Strontium (Sr)-Total | | | 0.000025 | | mg/L | | 0.001 | 14-JUN-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 14-JUN-22 |
| Tellurium (Te)-Total | | | 0.00006 | | mg/L | | 0.001 | 14-JUN-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 14-JUN-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 14-JUN-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 14-JUN-22 |
| Titanium (Ti)-Total | | | <0.00001 | | mg/L | | 0.002 | 14-JUN-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 14-JUN-22 |
| Uranium (U)-Total | | | <0.000000E | | mg/L | | 0.005 | 14-JUN-22 |
| Vanadium (V)-Total | | | 0.00015 | | mg/L | | 0.001 | 14-JUN-22 |
| Zinc (Zn)-Total | | | 0.0010 | | mg/L | | 0.003 | 14-JUN-22 |
| Zirconium (Zr)-Total | | | <0.000002 | | mg/L | | 0.001 | 14-JUN-22 |
| WG3738000-5 | MB | | | | | | | |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5801156 | | | | | | | |
| WG3738000-5 MB | | | | | | | | |
| Aluminum (Al)-Total | | | 0.0014 | | mg/L | | 0.005 | 14-JUN-22 |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 14-JUN-22 |
| Arsenic (As)-Total | | | 0.00002 | | mg/L | | 0.001 | 14-JUN-22 |
| Barium (Ba)-Total | | | 0.00001 | | mg/L | | 0.01 | 14-JUN-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 14-JUN-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 14-JUN-22 |
| Boron (B)-Total | | | 0.0010 | | mg/L | | 0.05 | 14-JUN-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 14-JUN-22 |
| Calcium (Ca)-Total | | | 0.002 | | mg/L | | 0.2 | 14-JUN-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 14-JUN-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 14-JUN-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 14-JUN-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 14-JUN-22 |
| Iron (Fe)-Total | | | <0.0005 | | mg/L | | 0.02 | 14-JUN-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 14-JUN-22 |
| Lithium (Li)-Total | | | 0.0004 | | mg/L | | 0.05 | 14-JUN-22 |
| Magnesium (Mg)-Total | | | 0.0010 | | mg/L | | 0.02 | 14-JUN-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 14-JUN-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 14-JUN-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 14-JUN-22 |
| Phosphorus (P)-Total | | | <0.005 | | mg/L | | 0.05 | 14-JUN-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 14-JUN-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 14-JUN-22 |
| Selenium (Se)-Total | | | <0.000005 | | mg/L | | 0.00005 | 14-JUN-22 |
| Silicon (Si)-Total | | | 0.034 | | mg/L | | 0.1 | 14-JUN-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 14-JUN-22 |
| Sodium (Na)-Total | | | <0.005 | | mg/L | | 0.1 | 14-JUN-22 |
| Strontium (Sr)-Total | | | 0.000020 | | mg/L | | 0.001 | 14-JUN-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 14-JUN-22 |
| Tellurium (Te)-Total | | | 0.00006 | | mg/L | | 0.001 | 14-JUN-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 14-JUN-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 14-JUN-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 14-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|------------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5801156 | | | | | | | |
| WG3738000-5 MB | | | | | | | | |
| Titanium (Ti)-Total | | | 0.00002 | | mg/L | | 0.002 | 14-JUN-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 14-JUN-22 |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.005 | 14-JUN-22 |
| Vanadium (V)-Total | | | 0.00015 | | mg/L | | 0.001 | 14-JUN-22 |
| Zinc (Zn)-Total | | | <0.0005 | | mg/L | | 0.003 | 14-JUN-22 |
| Zirconium (Zr)-Total | | | 0.000004 | | mg/L | | 0.001 | 14-JUN-22 |
| WG3738000-4 MS | | L2713614-16 | | | | | | |
| Aluminum (Al)-Total | | | N/A | MS-B | % | | - | 14-JUN-22 |
| Antimony (Sb)-Total | | | 107.0 | | % | | 70-130 | 14-JUN-22 |
| Arsenic (As)-Total | | | 105.3 | | % | | 70-130 | 14-JUN-22 |
| Barium (Ba)-Total | | | 109.0 | | % | | 70-130 | 14-JUN-22 |
| Beryllium (Be)-Total | | | 98.1 | | % | | 70-130 | 14-JUN-22 |
| Bismuth (Bi)-Total | | | 104.7 | | % | | 70-130 | 14-JUN-22 |
| Boron (B)-Total | | | 101.3 | | % | | 70-130 | 14-JUN-22 |
| Cadmium (Cd)-Total | | | 107.6 | | % | | 70-130 | 14-JUN-22 |
| Calcium (Ca)-Total | | | N/A | MS-B | % | | - | 14-JUN-22 |
| Cesium (Cs)-Total | | | 107.1 | | % | | 70-130 | 14-JUN-22 |
| Chromium (Cr)-Total | | | 106.5 | | % | | 70-130 | 14-JUN-22 |
| Cobalt (Co)-Total | | | 104.4 | | % | | 70-130 | 14-JUN-22 |
| Copper (Cu)-Total | | | 104.7 | | % | | 70-130 | 14-JUN-22 |
| Iron (Fe)-Total | | | 106.4 | | % | | 70-130 | 14-JUN-22 |
| Lead (Pb)-Total | | | 104.7 | | % | | 70-130 | 14-JUN-22 |
| Lithium (Li)-Total | | | 100.5 | | % | | 70-130 | 14-JUN-22 |
| Magnesium (Mg)-Total | | | N/A | MS-B | % | | - | 14-JUN-22 |
| Manganese (Mn)-Total | | | N/A | MS-B | % | | - | 14-JUN-22 |
| Molybdenum (Mo)-Total | | | 108.9 | | % | | 70-130 | 14-JUN-22 |
| Nickel (Ni)-Total | | | 106.4 | | % | | 70-130 | 14-JUN-22 |
| Phosphorus (P)-Total | | | 105.9 | | % | | 70-130 | 14-JUN-22 |
| Potassium (K)-Total | | | 109.7 | | % | | 70-130 | 14-JUN-22 |
| Rubidium (Rb)-Total | | | 104.5 | | % | | 70-130 | 14-JUN-22 |
| Selenium (Se)-Total | | | 105.1 | | % | | 70-130 | 14-JUN-22 |
| Silicon (Si)-Total | | | 103.1 | | % | | 70-130 | 14-JUN-22 |
| Silver (Ag)-Total | | | 109.2 | | % | | 70-130 | 14-JUN-22 |
| Sodium (Na)-Total | | | N/A | MS-B | % | | - | 14-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5801156 | | | | | | | |
| WG3738000-4 MS | | L2713614-16 | | | | | | |
| Strontium (Sr)-Total | | | N/A | MS-B | % | | - | 14-JUN-22 |
| Sulfur (S)-Total | | | 99.4 | | % | | 70-130 | 14-JUN-22 |
| Tellurium (Te)-Total | | | 102.0 | | % | | 70-130 | 14-JUN-22 |
| Thallium (Tl)-Total | | | 103.2 | | % | | 70-130 | 14-JUN-22 |
| Thorium (Th)-Total | | | 110.8 | | % | | 70-130 | 14-JUN-22 |
| Tin (Sn)-Total | | | 106.2 | | % | | 70-130 | 14-JUN-22 |
| Titanium (Ti)-Total | | | 114.4 | | % | | 70-130 | 14-JUN-22 |
| Tungsten (W)-Total | | | 106.3 | | % | | 70-130 | 14-JUN-22 |
| Uranium (U)-Total | | | 106.1 | | % | | 70-130 | 14-JUN-22 |
| Vanadium (V)-Total | | | 106.2 | | % | | 70-130 | 14-JUN-22 |
| Zinc (Zn)-Total | | | 106.1 | | % | | 70-130 | 14-JUN-22 |
| Zirconium (Zr)-Total | | | 110.9 | | % | | 70-130 | 14-JUN-22 |
| NH3-MISA-F-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5800406 | | | | | | | |
| WG3738116-3 DUP | | L2713605-1 | | | | | | |
| Ammonia, Total (as N) | | 0.006 | 0.004 | RPD-NA | mg/L | N/A | 20 | 14-JUN-22 |
| WG3738116-2 LCS | | | | | | | | |
| Ammonia, Total (as N) | | | 92.8 | | % | | 85-115 | 14-JUN-22 |
| WG3738116-1 MB | | | | | | | | |
| Ammonia, Total (as N) | | | 0.004 | | mg/L | | 0.005 | 14-JUN-22 |
| Batch | R5805074 | | | | | | | |
| WG3738122-2 LCS | | | | | | | | |
| Ammonia, Total (as N) | | | 101.5 | | % | | 85-115 | 17-JUN-22 |
| WG3738122-1 MB | | | | | | | | |
| Ammonia, Total (as N) | | | <0.002 | | mg/L | | 0.005 | 17-JUN-22 |
| NO2-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5797317 | | | | | | | |
| WG3738100-3 DUP | | L2713605-1 | | | | | | |
| Nitrite (as N) | | <0.001 | <0.001 | RPD-NA | mg/L | N/A | 20 | 11-JUN-22 |
| WG3738100-2 LCS | | | | | | | | |
| Nitrite (as N) | | | 96.8 | | % | | 90-110 | 11-JUN-22 |
| WG3738100-1 MB | | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 11-JUN-22 |
| WG3738100-4 MS | | L2713605-2 | | | | | | |
| Nitrite (as N) | | | 89.6 | | % | | 75-125 | 11-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|--------|-----------|-------|-----|---------|-----------|
| NO2-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5799097 | | | | | | | |
| WG3738103-3 | DUP | L2713614-18 | | | | | | |
| Nitrite (as N) | | <0.001 | <0.001 | RPD-NA | mg/L | N/A | 20 | 13-JUN-22 |
| WG3738103-2 | LCS | | | | | | | |
| Nitrite (as N) | | | 104.0 | | % | | 90-110 | 13-JUN-22 |
| WG3738103-1 | MB | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 13-JUN-22 |
| NO3-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5797317 | | | | | | | |
| WG3738100-3 | DUP | L2713605-1 | | | | | | |
| Nitrate (as N) | | <0.002 | <0.002 | RPD-NA | mg/L | N/A | 20 | 11-JUN-22 |
| WG3738100-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 99.5 | | % | | 90-110 | 11-JUN-22 |
| WG3738100-1 | MB | | | | | | | |
| Nitrate (as N) | | | <0.002 | | mg/L | | 0.02 | 11-JUN-22 |
| WG3738100-4 | MS | L2713605-2 | | | | | | |
| Nitrate (as N) | | | 104.3 | | % | | 75-125 | 11-JUN-22 |
| Batch | R5799097 | | | | | | | |
| WG3738103-3 | DUP | L2713614-18 | | | | | | |
| Nitrate (as N) | | <0.002 | <0.002 | RPD-NA | mg/L | N/A | 20 | 13-JUN-22 |
| WG3738103-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 104.1 | | % | | 90-110 | 13-JUN-22 |
| WG3738103-1 | MB | | | | | | | |
| Nitrate (as N) | | | <0.002 | | mg/L | | 0.02 | 13-JUN-22 |
| OGG-TOT-WT | | Effluent | | | | | | |
| Batch | R5800225 | | | | | | | |
| WG3739443-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 98.2 | | % | | 50-150 | 14-JUN-22 |
| WG3739443-1 | MB | | | | | | | |
| Oil and Grease, Total | | | <0.2 | | mg/L | | 1 | 14-JUN-22 |
| PH-MISA-TB | | Effluent | | | | | | |
| Batch | R5797639 | | | | | | | |
| WG3737757-2 | LCS | | | | | | | |
| pH | | | 7.01 | | pH | | 6.9-7.1 | 11-JUN-22 |



Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|---------|-----------|
| PH-MISA-TB | | Effluent | | | | | | |
| Batch | R5804326 | | | | | | | |
| WG3741016-2 | LCS | | | | | | | |
| pH | | | 6.94 | | pH | | 6.9-7.1 | 16-JUN-22 |
| Batch | R5804550 | | | | | | | |
| WG3738074-2 | LCS | | | | | | | |
| pH | | | 6.98 | | pH | | 6.9-7.1 | 17-JUN-22 |
| SO4-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5797317 | | | | | | | |
| WG3738100-3 | DUP | L2713605-1 | | | | | | |
| Sulfate (SO4) | | 16.4 | 16.1 | | mg/L | 1.7 | 20 | 11-JUN-22 |
| WG3738100-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 99.6 | | % | | 90-110 | 11-JUN-22 |
| WG3738100-1 | MB | | | | | | | |
| Sulfate (SO4) | | | <0.05 | | mg/L | | 0.3 | 11-JUN-22 |
| WG3738100-4 | MS | L2713605-2 | | | | | | |
| Sulfate (SO4) | | | 102.6 | | % | | 75-125 | 11-JUN-22 |
| Batch | R5799097 | | | | | | | |
| WG3738103-3 | DUP | L2713614-18 | | | | | | |
| Sulfate (SO4) | | <0.05 | <0.05 | RPD-NA | mg/L | N/A | 20 | 13-JUN-22 |
| WG3738103-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 105.5 | | % | | 90-110 | 13-JUN-22 |
| WG3738103-1 | MB | | | | | | | |
| Sulfate (SO4) | | | 0.30 | | mg/L | | 0.3 | 13-JUN-22 |
| WG3738103-4 | MS | L2713648-1 | | | | | | |
| Sulfate (SO4) | | | N/A | MS-B | % | | - | 13-JUN-22 |
| TDS-MISA-TB | | Effluent | | | | | | |
| Batch | R5796737 | | | | | | | |
| WG3738231-3 | DUP | L2713614-8 | | | | | | |
| Total Dissolved Solids | | 312 | 322 | | mg/L | 3.5 | 20 | 10-JUN-22 |
| WG3738231-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 98.9 | | % | | 85-115 | 10-JUN-22 |
| WG3738231-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <2 | | mg/L | | 10 | 10-JUN-22 |
| Batch | R5796832 | | | | | | | |
| WG3738421-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 94.5 | | % | | 85-115 | 11-JUN-22 |
| WG3738421-1 | MB | | | | | | | |



Environmental

Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| TDS-MISA-TB | | Effluent | | | | | | |
| Batch | R5796832 | | | | | | | |
| WG3738421-1 | MB | | | | | | | |
| Total Dissolved Solids | | | 2 | | mg/L | | 10 | 11-JUN-22 |
| TSS-MISA-TB | | Effluent | | | | | | |
| Batch | R5796728 | | | | | | | |
| WG3738233-3 | DUP | L2713614-8 | | | | | | |
| Total Suspended Solids | | 3.5 | 3.5 | | mg/L | 5.9 | 20 | 10-JUN-22 |
| WG3738233-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 102.8 | | % | | 85-115 | 10-JUN-22 |
| WG3738233-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 10-JUN-22 |
| Batch | R5796824 | | | | | | | |
| WG3738420-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 99.0 | | % | | 85-115 | 11-JUN-22 |
| WG3738420-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 11-JUN-22 |

Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MES | Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME). |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0
 Contact: Garnet Cornell

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|---|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Conductivity (EC) | | | | | | | |
| | 6 | 07-JUN-22 10:20 | 16-JUN-22 11:30 | 4 | 9 | days | EHT |
| | 7 | 07-JUN-22 13:30 | 16-JUN-22 11:30 | 4 | 9 | days | EHT |
| | 8 | 07-JUN-22 13:05 | 16-JUN-22 11:30 | 4 | 9 | days | EHT |
| | 9 | 07-JUN-22 11:35 | 16-JUN-22 11:30 | 4 | 9 | days | EHT |
| | 10 | 07-JUN-22 11:45 | 16-JUN-22 11:30 | 4 | 9 | days | EHT |
| | 11 | 07-JUN-22 13:45 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 12 | 07-JUN-22 09:00 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 13 | 07-JUN-22 10:35 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 14 | 07-JUN-22 09:45 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 15 | 07-JUN-22 12:20 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 16 | 07-JUN-22 11:55 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 17 | 07-JUN-22 11:05 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 18 | 07-JUN-22 12:00 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| pH | | | | | | | |
| | 6 | 07-JUN-22 10:20 | 16-JUN-22 11:30 | 4 | 9 | days | EHT |
| | 7 | 07-JUN-22 13:30 | 16-JUN-22 11:30 | 4 | 9 | days | EHT |
| | 8 | 07-JUN-22 13:05 | 16-JUN-22 11:30 | 4 | 9 | days | EHT |
| | 9 | 07-JUN-22 11:35 | 16-JUN-22 11:30 | 4 | 9 | days | EHT |
| | 10 | 07-JUN-22 11:45 | 16-JUN-22 11:30 | 4 | 9 | days | EHT |
| | 11 | 07-JUN-22 13:45 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 12 | 07-JUN-22 09:00 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 13 | 07-JUN-22 10:35 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 14 | 07-JUN-22 09:45 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 15 | 07-JUN-22 12:20 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 16 | 07-JUN-22 11:55 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 17 | 07-JUN-22 11:05 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| | 18 | 07-JUN-22 12:00 | 17-JUN-22 12:32 | 4 | 10 | days | EHT |
| Leachable Anions & Nutrients | | | | | | | |
| Nitrate in Water by IC | | | | | | | |
| | 18 | 07-JUN-22 12:00 | 13-JUN-22 13:28 | 5 | 6 | days | EHT |
| Nitrite in Water by IC | | | | | | | |
| | 18 | 07-JUN-22 12:00 | 13-JUN-22 13:28 | 5 | 6 | days | EHT |

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
 EHTR: Exceeded ALS recommended hold time prior to sample receipt.
 EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
 EHT: Exceeded ALS recommended hold time prior to analysis.
 Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2713614 were received on 09-JUN-22 09:35.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

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Contact: Garnet Cornell

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2713614-COFC

CHAIN OF CUSTODY RECORD - ALS-447204494

L2713614

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 6/8/2022 10:47:00 AM COC Number: ALS-447204494 | | | | | Containers Filtered Preservatives | | SW Kit | Ra-226 Bottle | | | | | | | | Number of Containers | Comments |
|---|-------|------|-------|------------------|--|------------|----------------|---------------|--|--|--|--|----|--|--|----------------------|----------|
| | | | | | | N | N | | | | | | | | | | |
| | | | | | | NG-SW-P-TB | RA226-MIMER-BE | | | | | | | | | | |
| Sample Code | | | | Date and Time | Matrix | | | | | | | | | | | | |
| 1 FB_SW_20220607 | DO | PH | TEMP | 06/07/2022 12:00 | SW | X | | | | | | | 11 | | | | |
| 2 SW03_SW_20220607 | 4.31 | 6.94 | 15.33 | 06/07/2022 12:40 | SW | X | | | | | | | 11 | | | | |
| 3 SW06_SW_20220607 | 4.31 | 6.94 | 15.33 | 06/07/2022 12:00 | SW | X | | | | | | | 11 | | | | |
| 4 SW15_SW_20220607 | 5.54 | 6.91 | 15 | 06/07/2022 10:50 | SW | X | | | | | | | 11 | | | | |
| 5 SW16_SW_20220607 | 12.22 | 7.36 | 11.6 | 06/07/2022 09:20 | SW | X | | | | | | | 11 | | | | |
| 6 SW17_SW_20220607 | 7.7 | 6.91 | 14.5 | 06/07/2022 10:20 | SW | X | | | | | | | 11 | | | | |

| | | | | | | | | | |
|-------------|--|----------------------|--|--|--|------|--|--|--|
| Signature | | Data/Time | | Shipping Details | | ATTN | | Special Instructions: | |
| Shipped by | | 6/8/2022 10:47:00 AM | | Method of Shipment: Courier | | | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com | |
| Received by | | NP3 09/06/22 9:35 AM | | On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | | | | |

Temp = 18.7°C



L2713614-COFC

L2713614

CHAIN OF CUSTODY RECORD - ALS-447204494

Project Name: Rainy ...
 Location: Chapple
 Project Number:
 Project Manager:
 PO Number:
 Project:
 Turn Around Time (days): 10 Business Days
 Shipping Company:
 Shipping Date: 6/8/2022 10:47:00 AM
 COC Number: ALS-447204494

| Sample Code | DO | PH | TEMP | Date and Time | Matrix | Containers | | Number of Containers | Comments | |
|---------------------|------|------|-------|------------------|--------|---------------|---------------|----------------------|----------|--|
| | | | | | | SW Kit | Re-226 Bottle | | | |
| | | | | | | Filtered | N | N | | |
| | | | | | | Preservatives | | | | |
| | | | | | | NG-SW-P-TB | RA226-MMER-BE | | | |
| 7 SW21A_SW_20220607 | 5.15 | 7.08 | 17.56 | 06/07/2022 13:30 | SW | X | | | 11 | |
| 8 SW22A_SW_20220607 | 5.6 | 7.06 | 17.41 | 06/07/2022 13:05 | SW | X | X | | 12 | |
| 9 SW23_SW_20220607 | 5.04 | 6.82 | 14.85 | 06/07/2022 11:35 | SW | X | X | | 12 | |
| 10 SW24_SW_20220607 | 5.71 | 6.84 | 14.63 | 06/07/2022 11:45 | SW | X | X | | 12 | |
| 11 SW27_SW_20220607 | 9.72 | 7.32 | 18.24 | 06/07/2022 13:45 | SW | X | | | 11 | |
| 12 SW02_SW_20220607 | 6.04 | 6.61 | 14.44 | 06/07/2022 09:00 | SW | X | | | 11 | |
| 13 SW10_SW_20220607 | 7.6 | 6.98 | 17.49 | 06/07/2022 10:35 | SW | X | | | 11 | |

| | | | | | | | | | |
|-------------|--|----------------------|--|-----------------------------|--|------|--|-----------------------------------|--|
| Signature | | Data/Time | | Shipping Details | | ATTN | | Special Instructions: | |
| Shipped by | | 6/8/2022 10:47:00 AM | | Method of Shipment: Courier | | | | | |
| Received by | | NP3 09/06/22 9:35 AM | | On Ice: yes / no | | | | Email Invoice to: | |
| | | | | Shipped: Air/Ground | | | | rainyriver.accounts1@newgold.com | |
| | | | | Lab Name: ALS Thunder Bay | | | | Email Report to: | |
| | | | | Lab Phone: | | | | rainyriver.labresults@newgold.com | |

Temp - 13.7°C



L2713614

Project Name: Rainy River
 Location: Chapple
 Project Number:
 Project Manager:
 PO Number:
 Project:
 Turn Around Time (days): 10 Business Days
 Shipping Company:
 Shipping Date: 6/8/2022 10:47:00 AM
 COC Number: ALS-447204494

L2713614-COFC

Filtered
 Preservatives

| Sample Code | DO | PH | TEMP | Date and Time | Matrix | SW Kit | Ra-226 Bottle | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | Number of Containers | Comments |
|----------------------|------|------|-------|------------------|--------|--------|---------------|------------|---------------|--|--|--|--|--|--|--|----------------------|----------|
| 14 SW20_SW_20220607 | 6.71 | 7.03 | 15.14 | 06/07/2022 09:45 | SW | X | X | | | | | | | | | | 12 | |
| 15 SW25_SW_20220607 | 7.98 | 7.48 | 18.94 | 06/07/2022 12:20 | SW | X | | | | | | | | | | | 11 | |
| 16 SW26_SW_20220607 | 9.28 | 7.43 | 17.44 | 06/07/2022 11:55 | SW | X | | | | | | | | | | | 11 | |
| 17 SW28A_SW_20220607 | 8.59 | 7.45 | 18.58 | 06/07/2022 11:05 | SW | X | | | | | | | | | | | 11 | |
| 18 TB_SW_20220607 | | | | 06/08/2022 12:00 | SW | X | | | | | | | | | | | 11 | |

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|----------------------|---|------|--|
| Shipped by | 6/8/2022 10:47:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | |
| Received by | NP3 09/06/22 9:35 AM | | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |

Tem - 13.7°C

| |
|--|
| Drinking Water (DW) Samples (client use) |
| Are samples taken from a Regulated DW System? Yes <input checked="" type="checkbox"/> No |
| Are samples for human consumption / use? Yes <input checked="" type="checkbox"/> No |
| Samples from a Regulated DW System require an Authorized DW COC form |

| Sample Receipt Details (ALS use only) | | | | | | | |
|--|--|--|--|------------------------------|--|--|--|
| Cooling Method: <input type="checkbox"/> None <input type="checkbox"/> Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Frozen <input type="checkbox"/> Cooling Initiated | | | | | | | |
| Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | |
| Cooler Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA Sample Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA | | | | | | | |
| Initial Cooler Temperatures °C | | | | Final Cooler Temperatures °C | | | |
| 13.7 | | | | | | | |



L2713614-COFC

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|----------------------|---|------|--|
| Shipped by | 6/8/2022 10:47:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | NP3 09/06/22 9:35 AM | | | |



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 09-JUL-22
Report Date: 23-AUG-22 10:35 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2721276
Project P.O. #: 4500062842
Job Reference: SW
C of C Numbers:
Legal Site Desc:

<original signed by>

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2721276-1 SW20_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 09:25 | | | | | | | |
| Matrix: G | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.63 | | 0.10 | pH | | 11-JUL-22 | R5820117 |
| Physical Tests | | | | | | | |
| Color, True | 134 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | 253 | | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | 123 | | 0.51 | mg/L | | 26-JUL-22 | |
| pH | 7.94 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 5.0 | | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | 186 | | 13 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 3.45 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 22-JUL-22 | R5828132 |
| Alkalinity, Total (as CaCO3) | 128 | | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.026 | <T | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |
| Chloride (Cl) | 13.7 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | 0.045 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | 0.002 | <DL | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | 1.23 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | 0.0152 | | 0.0010 | mg/L | 10-JUL-22 | 11-JUL-22 | R5821812 |
| Sulfate (SO4) | 0.75 | <T | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0003 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 25.2 | | 0.50 | mg/L | 05-JUL-22 | 20-JUL-22 | R5827301 |
| Total Organic Carbon | 25.0 | | 0.50 | mg/L | | 20-JUL-22 | R5827299 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.104 | | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | 0.00138 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.0174 | | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | 0.0000072 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | 0.0085 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | 0.000004 | <DL | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | 28.7 | | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | 0.0000120 | | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00050 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | 0.000270 | <DL | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00058 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 0.495 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-1 SW20_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 09:25 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Lead (Pb)-Total | 0.00009 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Lithium (Li)-Total | 0.0032 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 12.3 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | 0.0854 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822115 |
| Molybdenum (Mo)-Total | 0.000295 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | 0.00134 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | 0.035 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | 1.09 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.00167 | | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | 0.000140 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 4.51 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | 6.87 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | 0.0750 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | 0.4 | <DL | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | 0.00263 | | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | 0.000228 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00155 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | 0.0040 | <T | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | 0.000244 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.0134 | <T | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | 0.000045 | <DL | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.00127 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.0161 | | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | 0.0120 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | 0.0000030 | <DL | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 29.1 | | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00019 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | 0.000204 | <DL | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | 0.00054 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-1 SW20_SW_20220705 Sampled By: Client on 05-JUL-22 @ 09:25 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Iron (Fe)-Dissolved | 0.344 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | 0.0032 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 12.2 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.0741 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822166 |
| Molybdenum (Mo)-Dissolved | 0.000348 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | 0.00120 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | 0.025 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 1.10 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.00141 | | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | 0.000135 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 4.27 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 6.55 | | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.0761 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000030 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | 0.00080 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | 0.000014 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | 0.000227 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00118 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | 0.0052 | <T | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | 0.000320 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000904 | | 0.000020 | ug/L | 12-AUG-22 | 12-AUG-22 | R5840199 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | 64 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5821718 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0091 | | 0.0091 | Bq/L | 25-JUL-22 | 04-AUG-22 | R5812947 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-2 SW16_SW_20220705 Sampled By: Client on 05-JUL-22 @ 09:40 Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 38.4 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | 58.4 | | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2721276-2 SW16_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 09:40 | | | | | | | |
| Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |
| Hardness (as CaCO3) | 24.0 | | 0.51 | mg/L | | 26-JUL-22 | |
| pH | 7.39 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 4.5 | | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | 54 | | 10 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 2.43 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.6 | <DL | 2.0 | mg/L | | 22-JUL-22 | R5828132 |
| Alkalinity, Total (as CaCO3) | 25.6 | | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.024 | <T | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |
| Chloride (Cl) | 1.80 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | 0.022 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | 0.036 | <T | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | 0.547 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | 0.0038 | | 0.0010 | mg/L | 10-JUL-22 | 11-JUL-22 | R5821812 |
| Sulfate (SO4) | 2.20 | <T | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0002 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 12.8 | | 0.50 | mg/L | 05-JUL-22 | 20-JUL-22 | R5827301 |
| Total Organic Carbon | 11.6 | | 0.50 | mg/L | | 20-JUL-22 | R5827299 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0926 | | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | 0.000030 | <DL | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | 0.00050 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.00879 | <DL | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | 0.0000021 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | 0.0005 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | 0.000004 | <DL | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | 6.36 | | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | 0.0000130 | | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00044 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | 0.000080 | <DL | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00098 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 0.162 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | 0.00008 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Lithium (Li)-Total | 0.0004 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 2.11 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | 0.0162 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-2 SW16_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 09:40 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822115 |
| Molybdenum (Mo)-Total | 0.000100 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | 0.00060 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | 0.015 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | 0.75 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.00174 | | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | 0.000100 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 1.97 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | 2.00 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | 0.0200 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | 0.6 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | 0.00247 | | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | 0.0000635 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00120 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | 0.000098 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.0342 | | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.000406 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.00791 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | 0.0020 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 6.38 | | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | 0.000036 | <DL | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | 0.00084 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | 0.0755 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | 0.0004 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 1.97 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-2 SW16_SW_20220705 Sampled By: Client on 05-JUL-22 @ 09:40 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Manganese (Mn)-Dissolved | 0.00788 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822166 |
| Molybdenum (Mo)-Dissolved | 0.000092 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | 0.00048 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | 0.005 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 0.74 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.00160 | | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | 0.000080 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 1.87 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 1.92 | | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.0196 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | 0.4 | <DL | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | 0.00072 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | 0.000010 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | 0.0000655 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00062 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | 0.0010 | <DL | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | 0.000122 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | 26 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | 1.2 | | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5821647 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-3 SW10_SW_20220705 Sampled By: Client on 05-JUL-22 @ 09:55 Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 172 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | 245 | | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | 128 | | 0.51 | mg/L | | 26-JUL-22 | |
| pH | 7.92 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 7.0 | | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | 196 | | 13 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 2.10 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 126 | | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.028 | <T | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-3 SW10_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 09:55 | | | | | | | |
| Matrix: G | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Chloride (Cl) | 11.2 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | 0.055 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | 0.002 | <DL | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | 1.26 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | 0.0277 | | 0.0010 | mg/L | 10-JUL-22 | 11-JUL-22 | R5821812 |
| Sulfate (SO4) | 0.90 | <T | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 29.7 | | 0.50 | mg/L | 05-JUL-22 | 20-JUL-22 | R5827301 |
| Total Organic Carbon | 29.5 | | 0.50 | mg/L | | 20-JUL-22 | R5827299 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | 2.0 | PEHT | 2.0 | mg/L | | 04-AUG-22 | R5838178 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0728 | | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | 0.00162 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.0151 | | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | 0.0000226 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | 0.0090 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | 0.000002 | <DL | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | 28.9 | | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | 0.0000060 | <DL | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00042 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | 0.000255 | <DL | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00072 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 0.467 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | 0.00007 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Lithium (Li)-Total | 0.0038 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 12.2 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | 0.0552 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822115 |
| Molybdenum (Mo)-Total | 0.000330 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | 0.00160 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | 0.060 | | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | 0.96 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.00132 | | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | 0.000175 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-3 SW10_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 09:55 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Silicon (Si)-Total | 2.93 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | 6.10 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | 0.0787 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | 0.4 | <DL | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | 0.00210 | | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | 0.000332 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00140 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | 0.0025 | <DL | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | 0.000282 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.0174 | <T | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | 0.000070 | <DL | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.00157 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.0140 | | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | 0.000014 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | 0.000068 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | 0.0135 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 31.1 | | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00024 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | 0.000196 | <DL | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | 0.00062 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | 0.371 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | 0.0042 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 12.3 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.0470 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822166 |
| Molybdenum (Mo)-Dissolved | 0.000420 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | 0.00152 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | 0.050 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 0.98 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.00128 | | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2721276-3 SW10_SW_20220705 Sampled By: Client on 05-JUL-22 @ 09:55 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Selenium (Se)-Dissolved | 0.000195 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 2.87 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | 0.0000045 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 6.04 | | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.0836 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | 0.2 | <DL | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | 0.000006 | <DL | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000285 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | 0.00100 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | 0.000016 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | 0.000359 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00094 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | 0.0038 | <T | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | 0.000460 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000935 | | 0.000020 | ug/L | 12-AUG-22 | 12-AUG-22 | R5840199 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | 80 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5821647 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-4 SW28A_SW_20220705 Sampled By: Client on 05-JUL-22 @ 10:25 Matrix: G | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.96 | | 0.10 | pH | | 11-JUL-22 | R5820117 |
| Physical Tests | | | | | | | |
| Color, True | 56.2 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | 513 | | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | 285 | | 0.51 | mg/L | | 26-JUL-22 | |
| pH | 8.31 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 8.0 | | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | 312 | | 20 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 8.97 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 302 | | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.056 | <T | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |
| Chloride (Cl) | 10.6 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | 0.143 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | 0.068 | <T | 0.020 | mg/L | | 11-JUL-22 | R5820796 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-4 SW28A_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 10:25 | | | | | | | |
| Matrix: G | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | 0.816 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | 0.0077 | | 0.0010 | mg/L | 10-JUL-22 | 11-JUL-22 | R5821812 |
| Sulfate (SO4) | 4.30 | <T | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | 0.0004 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 16.8 | | 0.50 | mg/L | 05-JUL-22 | 20-JUL-22 | R5827301 |
| Total Organic Carbon | 15.9 | | 0.50 | mg/L | | 20-JUL-22 | R5827299 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | PEHT | 2.0 | mg/L | | 04-AUG-22 | R5838178 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.190 | | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | 0.00190 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.0418 | | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | 0.0000123 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | 0.0180 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | 0.000008 | <DL | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | 62.4 | | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | 0.0000270 | | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00056 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | 0.000395 | <DL | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00086 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 0.508 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | 0.00017 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Lithium (Li)-Total | 0.0132 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 28.6 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | 0.155 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822115 |
| Molybdenum (Mo)-Total | 0.00149 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | 0.00160 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | 0.020 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | 1.78 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.00326 | | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | 0.000190 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 7.44 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | 4.46 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-4 SW28A_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 10:25 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Strontium (Sr)-Total | 0.253 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | 1.6 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | 0.00450 | | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | 0.00254 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00140 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | 0.0025 | <DL | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | 0.000320 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.0982 | | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | 0.000060 | <DL | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.00189 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.0395 | | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | 0.0250 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 67.0 | | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | 0.0000145 | | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00030 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | 0.000332 | <DL | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | 0.00086 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | 0.413 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Lead (Pb)-Dissolved | 0.00016 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | 0.0138 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 28.7 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.151 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822166 |
| Molybdenum (Mo)-Dissolved | 0.00152 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | 0.00154 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 1.84 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.00304 | | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | 0.000170 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 7.12 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|---------|-------|-----------|-----------|----------|
| L2721276-4 SW28A_SW_20220705 Sampled By: Client on 05-JUL-22 @ 10:25 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Sodium (Na)-Dissolved | 4.48 | | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.266 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | 1.2 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000160 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | 0.00292 | | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | 0.000020 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | 0.00259 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00124 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | 0.0046 | <T | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | 0.000424 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | 38 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5821647 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-5 SW17_SW_20220705 Sampled By: Client on 05-JUL-22 @ 10:50 Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 50.7 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | 87.8 | | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | 41.0 | | 0.51 | mg/L | | 26-JUL-22 | |
| pH | 7.53 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | 74 | | 13 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 3.27 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 42.8 | | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.014 | <T | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |
| Chloride (Cl) | 1.71 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | 0.024 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | 0.550 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | 0.091 | | 0.010 | mg/L | 10-JUL-22 | 11-JUL-22 | R5821812 |
| Sulfate (SO4) | 2.00 | <T | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0001 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-5 SW17_SW_20220705 Sampled By: Client on 05-JUL-22 @ 10:50 Matrix: G | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 13.3 | | 0.50 | mg/L | 05-JUL-22 | 20-JUL-22 | R5827301 |
| Total Organic Carbon | 12.9 | | 0.50 | mg/L | | 20-JUL-22 | R5827299 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | PEHT | 2.0 | mg/L | | 04-AUG-22 | R5838178 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0754 | | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | 0.00075 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.0110 | | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | 0.0000021 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | 0.0010 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | 0.000008 | <DL | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | 10.5 | | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | 0.0000090 | <DL | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00038 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | 0.000330 | <DL | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00096 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 0.274 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | 0.00008 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Lithium (Li)-Total | 0.0004 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 3.47 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | 0.199 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822115 |
| Molybdenum (Mo)-Total | 0.000110 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | 0.00076 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | 0.135 | | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | 0.96 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.00175 | | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | 0.000110 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 2.10 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | 2.03 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | 0.0247 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | 0.6 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | 0.00198 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-5 SW17_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 10:50 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | 0.0000745 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00090 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | 0.000224 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.0306 | | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | 0.000055 | <DL | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.000681 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.00997 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | 0.0015 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | 0.0000040 | <DL | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 10.8 | | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00019 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | 0.000274 | <DL | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | 0.00084 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | 0.181 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | 0.0008 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 3.42 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.187 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822166 |
| Molybdenum (Mo)-Dissolved | 0.000122 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | 0.00066 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | 0.095 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 0.97 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.00160 | | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | 0.000120 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 2.07 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 1.98 | | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.0246 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | 0.00001 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000035 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|--------|-------|-----------|-----------|----------|
| L2721276-5 SW17_SW_20220705 Sampled By: Client on 05-JUL-22 @ 10:50 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Titanium (Ti)-Dissolved | 0.00082 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | 0.000006 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | 0.0000720 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00058 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | 0.0012 | <DL | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | 0.000176 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | 34 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5821647 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-6 SW02_SW_20220707 Sampled By: Client on 05-JUL-22 @ 11:00 Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 194 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | 137 | | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | 81.8 | | 0.51 | mg/L | | 26-JUL-22 | |
| pH | 7.75 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 1.0 | <DL | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | 132 | | 13 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 1.08 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 80.4 | | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.020 | <T | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | 0.034 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | 1.03 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 10-JUL-22 | 11-JUL-22 | R5821812 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | 0.0007 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 32.7 | DLM | 2.5 | mg/L | 05-JUL-22 | 15-JUL-22 | R5823558 |
| Total Organic Carbon | 30.3 | | 0.50 | mg/L | | 19-JUL-22 | R5824836 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | 2.1 | PEHT | 2.0 | mg/L | | 04-AUG-22 | R5838178 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0348 | | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-6 SW02_SW_20220707 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 11:00 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Antimony (Sb)-Total | 0.000025 | <DL | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | 0.00123 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.0106 | | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | 0.0000021 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | 0.0015 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | 0.000009 | <DL | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | 19.9 | | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | 0.0000010 | <DL | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00028 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | 0.000175 | <DL | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00018 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 0.431 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | 0.00003 | <DL | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Lithium (Li)-Total | 0.0010 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 7.67 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | 0.0448 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822165 |
| Molybdenum (Mo)-Total | 0.000095 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | 0.00044 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | 0.20 | <DL | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.000666 | | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | 0.000185 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 3.68 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | 1.28 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | 0.0343 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | 0.00052 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | 0.0000260 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00070 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | 0.0020 | <DL | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | 0.000074 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-6 SW02_SW_20220707 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 11:00 | | | | | | | |
| Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0278 | <T | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | 0.000030 | <DL | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.00109 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.0103 | | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | 0.0025 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 20.2 | | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00040 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | 0.000136 | <DL | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | 0.00024 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | 0.410 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | 0.0012 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 7.64 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.0402 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822166 |
| Molybdenum (Mo)-Dissolved | 0.000104 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | 0.00050 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | 0.005 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 0.22 | <DL | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.000578 | | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | 0.000165 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 3.64 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 0.755 | | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.0351 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000045 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | 0.00034 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | 0.000010 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | 0.0000270 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00044 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | 0.0030 | <T | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | 0.000120 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Aggregate Organics | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2721276-6 SW02_SW_20220707 Sampled By: Client on 05-JUL-22 @ 11:00 Matrix: G | | | | | | | |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | 84 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5821647 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-7 SW15_SW_20220705 Sampled By: Client on 05-JUL-22 @ 11:20 Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 311 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | 249 | | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | 118 | | 0.51 | mg/L | | 26-JUL-22 | |
| pH | 7.89 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 2.0 | <DL | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | 228 | | 13 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 3.45 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 92.4 | | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.046 | <T | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |
| Chloride (Cl) | 3.85 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | 0.042 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | 0.104 | <T | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | 0.003 | <DL | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | 1.44 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | 0.0292 | | 0.0010 | mg/L | 10-JUL-22 | 11-JUL-22 | R5821812 |
| Sulfate (SO4) | 34.8 | | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0015 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 43.8 | DLM | 2.5 | mg/L | 05-JUL-22 | 15-JUL-22 | R5823558 |
| Total Organic Carbon | 39.4 | | 0.50 | mg/L | | 19-JUL-22 | R5824836 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | PEHT | 2.0 | mg/L | | 04-AUG-22 | R5838178 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.133 | | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | 0.000640 | <T | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | 0.00185 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.0180 | | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | 0.0000175 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | 0.0120 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | 0.000010 | <DL | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-7 SW15_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 11:20 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Calcium (Ca)-Total | 29.9 | | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | 0.0000070 | <DL | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00044 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | 0.000305 | <DL | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00114 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 0.611 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | 0.00016 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Lithium (Li)-Total | 0.0042 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 11.0 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | 0.0678 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822165 |
| Molybdenum (Mo)-Total | 0.000660 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | 0.00156 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | 0.060 | | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | 3.64 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.00249 | | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | 0.000210 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 3.60 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | 8.60 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | 0.0804 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | 12.2 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | 0.00272 | | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | 0.000433 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00145 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | 0.0020 | <DL | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | 0.000332 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.0802 | | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | 0.000730 | <T | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.00170 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.0174 | | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | 0.0155 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-7 SW15_SW_20220705 Sampled By: Client on 05-JUL-22 @ 11:20 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Cadmium (Cd)-Dissolved | 0.0000090 | <DL | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 30.3 | | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | 0.0000040 | <DL | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00028 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | 0.000262 | <DL | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | 0.00106 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | 0.513 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Lead (Pb)-Dissolved | 0.00012 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | 0.0044 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 10.3 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.0560 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822166 |
| Molybdenum (Mo)-Dissolved | 0.000808 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | 0.00146 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | 0.035 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 3.67 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.00250 | | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | 0.000235 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 3.48 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 8.47 | | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.0837 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | 11.2 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | 0.00006 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000020 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | 0.00180 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | 0.000018 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | 0.000452 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00132 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | 0.0024 | <DL | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | 0.000512 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | 113 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5821718 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-8 SW23_SW_20220705 Sampled By: Client on 05-JUL-22 @ 12:00 Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2721276-8 SW23_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 12:00 | | | | | | | |
| Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 248 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | 241 | | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | 134 | | 0.51 | mg/L | | 26-JUL-22 | |
| pH | 7.98 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 7.0 | | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | 212 | | 13 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 8.33 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 125 | | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.040 | <T | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |
| Chloride (Cl) | 3.70 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | 0.064 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | 1.53 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | 0.0298 | | 0.0010 | mg/L | 10-JUL-22 | 11-JUL-22 | R5821812 |
| Sulfate (SO4) | 8.65 | | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0013 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 41.9 | DLM | 2.5 | mg/L | 05-JUL-22 | 15-JUL-22 | R5823558 |
| Total Organic Carbon | 39.9 | | 0.50 | mg/L | | 19-JUL-22 | R5824836 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | PEHT | 2.0 | mg/L | | 04-AUG-22 | R5838178 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.238 | | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | 0.000125 | <DL | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | 0.00242 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.0203 | | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | 0.0000247 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | 0.0100 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | 0.000009 | <DL | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | 31.4 | | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | 0.0000265 | | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00072 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | 0.000515 | <T | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00124 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 1.07 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | 0.00025 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-8 SW23_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 12:00 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Lithium (Li)-Total | 0.0046 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 12.6 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | 0.151 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822165 |
| Molybdenum (Mo)-Total | 0.000500 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | 0.00212 | <T | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | 0.065 | | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | 1.02 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.00175 | | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | 0.000205 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 3.56 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | 4.11 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | 0.0807 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | 3.2 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | 0.00531 | | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | 0.000423 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00165 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | 0.0025 | <DL | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | 0.000442 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.0438 | | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | 0.000145 | <DL | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.00214 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.0179 | | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | 0.0140 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | 0.0000080 | <DL | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 33.3 | | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00025 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | 0.000376 | <DL | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | 0.00104 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | 0.742 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-8 SW23_SW_20220705 Sampled By: Client on 05-JUL-22 @ 12:00 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lead (Pb)-Dissolved | 0.00014 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | 0.0046 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 12.4 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.135 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822166 |
| Molybdenum (Mo)-Dissolved | 0.000586 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | 0.00182 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | 0.045 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 1.00 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.00134 | | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | 0.000265 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 3.19 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 4.03 | | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.0836 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | 2.8 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000020 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | 0.00154 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | 0.000012 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | 0.000456 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00126 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | 0.0040 | <T | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | 0.000522 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | 100 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | 1.2 | | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5821718 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.0084 | | 0.0084 | Bq/L | 25-JUL-22 | 04-AUG-22 | R5812947 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-9 SW06_SW_20220705 Sampled By: Client on 05-JUL-22 @ 12:00 Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 80.7 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | 325 | | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | 171 | | 0.51 | mg/L | | 26-JUL-22 | |
| pH | 8.22 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 10-JUL-22 | R5820203 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-9 SW06_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 12:00 | | | | | | | |
| Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |
| Total Dissolved Solids | 238 | | 20 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 2.27 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 182 | | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.020 | <T | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |
| Chloride (Cl) | 6.15 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | 0.073 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | 0.909 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | 0.050 | | 0.050 | mg/L | 10-JUL-22 | 11-JUL-22 | R5821812 |
| Sulfate (SO4) | 8.15 | | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0012 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 22.9 | | 0.50 | mg/L | 05-JUL-22 | 15-JUL-22 | R5823558 |
| Total Organic Carbon | 21.6 | | 0.50 | mg/L | | 19-JUL-22 | R5824836 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | PEHT | 2.0 | mg/L | | 04-AUG-22 | R5838178 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0542 | | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | 0.000085 | <DL | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | 0.00159 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.0168 | | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | 0.0000083 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | 0.0115 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | 43.9 | | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | 0.0000080 | <DL | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00030 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | 0.000130 | <DL | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00156 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 0.235 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | 0.00002 | <DL | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Lithium (Li)-Total | 0.0050 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 15.2 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | 0.0330 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822165 |
| Molybdenum (Mo)-Total | 0.000865 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-9 SW06_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 12:00 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Nickel (Ni)-Total | 0.00140 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | 0.025 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | 1.16 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.00131 | | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | 0.000170 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 3.03 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | 3.61 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | 0.0998 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | 2.8 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | 0.00176 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | 0.00101 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00080 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | 0.0055 | <T | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | 0.000198 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.0392 | | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | 0.000090 | <DL | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.00150 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.0166 | | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | 0.0160 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | 0.0000020 | <DL | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 45.0 | | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | 0.0000085 | <DL | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00019 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | 0.000120 | <DL | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | 0.00146 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | 0.212 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | 0.0052 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 14.3 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.0306 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822166 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2721276-9 SW06_SW_20220705 Sampled By: Client on 05-JUL-22 @ 12:00 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Molybdenum (Mo)-Dissolved | 0.000964 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | 0.00134 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 1.15 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.00131 | | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | 0.000165 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 2.92 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 3.38 | | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.103 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | 2.4 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | 0.00172 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | 0.000014 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | 0.00104 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00078 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | 0.0068 | <T | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | 0.000316 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | 51 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5821718 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-10 SW24_SW_20220705 Sampled By: Client on 05-JUL-22 @ 12:30 Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 253 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | 248 | | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | 139 | | 0.51 | mg/L | | 28-JUL-22 | |
| pH | 7.95 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 6.0 | | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | 218 | | 13 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 7.69 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 126 | | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.044 | <T | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |
| Chloride (Cl) | 4.03 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | 0.064 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-10 SW24_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 12:30 | | | | | | | |
| Matrix: G | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Nitrate (as N) | 0.010 | <DL | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | 1.49 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | 0.0289 | | 0.0010 | mg/L | 10-JUL-22 | 11-JUL-22 | R5821812 |
| Sulfate (SO4) | 13.0 | | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0010 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 58.9 | DLM | 2.5 | mg/L | 05-JUL-22 | 15-JUL-22 | R5823558 |
| Total Organic Carbon | 38.7 | RRV | 0.50 | mg/L | | 19-JUL-22 | R5824836 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | PEHT | 2.0 | mg/L | | 04-AUG-22 | R5838178 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.238 | | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | 0.000225 | <DL | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | 0.00235 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.0201 | | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | 0.0000165 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | 0.0110 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | 0.000008 | <DL | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | 32.9 | | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | 0.0000285 | | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00080 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | 0.000520 | <T | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00134 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 1.07 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | 0.00027 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Lithium (Li)-Total | 0.0048 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 12.6 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | 0.149 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822165 |
| Molybdenum (Mo)-Total | 0.000565 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | 0.00218 | <T | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | 0.075 | | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | 1.60 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.00192 | | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | 0.000230 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 3.55 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-10 SW24_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 12:30 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Sodium (Na)-Total | 5.28 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | 0.0871 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | 5.0 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | 0.00001 | <DL | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | 0.00576 | | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | 0.000447 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00180 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | 0.0025 | <DL | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | 0.000444 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.120 | | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | 0.000255 | <DL | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.00223 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.0188 | | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | 0.0150 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | 0.0000370 | <T | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 35.6 | | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | 0.0000145 | | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00049 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | 0.000462 | <DL | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | 0.00124 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | 0.922 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Lead (Pb)-Dissolved | 0.00030 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | 0.0048 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 12.2 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.144 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822166 |
| Molybdenum (Mo)-Dissolved | 0.000652 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | 0.00202 | <T | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | 0.045 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 1.58 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.00178 | | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | 0.000280 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 3.31 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|-------|-----------|-----------|----------|
| L2721276-10 SW24_SW_20220705 Sampled By: Client on 05-JUL-22 @ 12:30 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 5.15 | | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.0886 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | 4.6 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | 0.00006 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000045 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | 0.00440 | | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | 0.000008 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | 0.000455 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00162 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | 0.0578 | DTC | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | 0.000640 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | 104 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5821718 |
| Radiological Parameters | | | | | | | |
| Ra-226 | 0.013 | | 0.0085 | Bq/L | 25-JUL-22 | 04-AUG-22 | R5812947 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-11 SW03_SW_20220705 Sampled By: Client on 05-JUL-22 @ 13:15 Matrix: G | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.26 | | 0.10 | pH | | 11-JUL-22 | R5820117 |
| Physical Tests | | | | | | | |
| Color, True | 169 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | 283 | | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | 149 | | 0.51 | mg/L | | 26-JUL-22 | |
| pH | 8.02 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 2.0 | <DL | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | 228 | | 13 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 3.36 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 137 | | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.034 | <T | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |
| Chloride (Cl) | 5.28 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | 0.058 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | 0.060 | <T | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | 1.22 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-11 SW03_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 13:15 | | | | | | | |
| Matrix: G | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Orthophosphate-Dissolved (as P) | 0.0268 | | 0.0010 | mg/L | 10-JUL-22 | 11-JUL-22 | R5821812 |
| Sulfate (SO4) | 21.0 | | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0010 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | 0.0001 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 36.4 | DLM | 2.5 | mg/L | 05-JUL-22 | 15-JUL-22 | R5823558 |
| Total Organic Carbon | 33.6 | | 0.50 | mg/L | | 19-JUL-22 | R5824836 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | PEHT | 2.0 | mg/L | | 04-AUG-22 | R5838178 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0890 | | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | 0.000220 | <DL | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | 0.00179 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.0203 | | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | 0.0000062 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | 0.0140 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | 0.000006 | <DL | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | 35.9 | | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | 0.0000080 | <DL | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00040 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | 0.000235 | <DL | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00172 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 0.428 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | 0.00008 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Lithium (Li)-Total | 0.0056 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 13.2 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | 0.0692 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822165 |
| Molybdenum (Mo)-Total | 0.000745 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | 0.00198 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | 0.055 | | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | 1.37 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.00189 | | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | 0.000215 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 2.95 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | 6.32 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | 0.0998 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | 7.6 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-11 SW03_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 13:15 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | 0.00260 | | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | 0.000553 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00115 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | 0.000254 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.0272 | <T | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | 0.000245 | <DL | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.00159 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.0195 | | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | 0.0185 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | 0.0000030 | <DL | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 38.0 | | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | 0.000202 | <DL | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | 0.00170 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | 0.332 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | 0.0058 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 13.2 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.0642 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822166 |
| Molybdenum (Mo)-Dissolved | 0.000862 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | 0.00180 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | 0.040 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 1.42 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.00176 | | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | 0.000260 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 2.86 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 6.09 | | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.104 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|-------|-----------|-----------|----------|
| L2721276-11 SW03_SW_20220705 Sampled By: Client on 05-JUL-22 @ 13:15 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Sulfur (S)-Dissolved | 7.0 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | 0.00106 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | 0.000018 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | 0.000577 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00106 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | 0.0014 | <DL | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | 0.000362 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | 84 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5822221 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-12 SW25_SW_20220705 Sampled By: Client on 05-JUL-22 @ 14:00 Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 89.7 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | 278 | | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | 146 | | 0.51 | mg/L | | 26-JUL-22 | |
| pH | 8.11 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 4.0 | | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | 186 | | 13 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 3.14 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 148 | | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.020 | <T | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |
| Chloride (Cl) | 8.32 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | 0.073 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | 0.918 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | 0.0046 | | 0.0010 | mg/L | 10-JUL-22 | 11-JUL-22 | R5821812 |
| Sulfate (SO4) | 5.30 | | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-12 SW25_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 14:00 | | | | | | | |
| Matrix: G | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 21.4 | | 0.50 | mg/L | 05-JUL-22 | 15-JUL-22 | R5823558 |
| Total Organic Carbon | 21.5 | | 0.50 | mg/L | | 19-JUL-22 | R5824836 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | PEHT | 2.0 | mg/L | | 04-AUG-22 | R5838178 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0774 | | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | 0.000080 | <DL | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | 0.00130 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.0151 | | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | 0.0000093 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | 0.0085 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | 0.000001 | <DL | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | 37.9 | | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | 0.0000110 | | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00036 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | 0.000135 | <DL | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00158 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 0.261 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | 0.00005 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Lithium (Li)-Total | 0.0040 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 12.6 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | 0.0514 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822165 |
| Molybdenum (Mo)-Total | 0.000770 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | 0.00142 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | 0.025 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | 1.29 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.00153 | | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | 0.000215 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 2.67 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | 3.61 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | 0.0898 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | 1.6 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | 0.00225 | | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-12 SW25_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 14:00 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Uranium (U)-Total | 0.000663 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00085 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | 0.0145 | | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | 0.000192 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.0104 | <T | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | 0.000090 | <DL | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.00124 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.0142 | | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | 0.0130 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 38.2 | | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | 0.0000040 | <DL | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00017 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | 0.000102 | <DL | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | 0.00146 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | 0.150 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | 0.0038 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 12.3 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.0433 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822166 |
| Molybdenum (Mo)-Dissolved | 0.000832 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | 0.00124 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 1.29 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.00152 | | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | 0.000205 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 2.50 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 3.47 | | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.0932 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | 2.0 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000085 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | 0.00076 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|--------|-------|-----------|-----------|----------|
| L2721276-12 SW25_SW_20220705 Sampled By: Client on 05-JUL-22 @ 14:00 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tungsten (W)-Dissolved | 0.000010 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | 0.000698 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00082 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | 0.0126 | | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | 0.000294 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | 54 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5822221 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-13 SW26_SW_20220705 Sampled By: Client on 05-JUL-22 @ 14:25 Matrix: G | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.76 | | 0.10 | pH | | 11-JUL-22 | R5820117 |
| Physical Tests | | | | | | | |
| Color, True | 80.7 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | 322 | | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | 174 | | 0.51 | mg/L | | 28-JUL-22 | |
| pH | 8.22 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | 224 | | 20 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 2.16 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 182 | | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.030 | <T | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |
| Chloride (Cl) | 6.13 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | 0.070 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | 0.822 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | 0.0042 | | 0.0010 | mg/L | 10-JUL-22 | 11-JUL-22 | R5821812 |
| Sulfate (SO4) | 8.15 | | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 22.5 | | 0.50 | mg/L | 05-JUL-22 | 15-JUL-22 | R5823558 |
| Total Organic Carbon | 20.5 | | 0.50 | mg/L | | 19-JUL-22 | R5824836 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | PEHT | 2.0 | mg/L | | 04-AUG-22 | R5838178 |
| Total Metals | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-13 SW26_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 14:25 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0522 | | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | 0.000105 | <DL | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | 0.00151 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.0167 | | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | 0.0000073 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | 0.00015 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | 0.0120 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | 43.5 | | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | 0.0000090 | <DL | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00032 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | 0.000130 | <DL | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00148 | <T | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 0.232 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | 0.00002 | <DL | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Lithium (Li)-Total | 0.0052 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 14.9 | | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | 0.0314 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822165 |
| Molybdenum (Mo)-Total | 0.000815 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | 0.00142 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | 0.015 | <DL | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | 1.14 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.00124 | | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | 0.000200 | <T | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 3.03 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | 3.62 | | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | 0.101 | | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | 2.8 | | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | 0.00190 | <DL | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | 0.000968 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00065 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | 0.0050 | <T | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | 0.000210 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-13 SW26_SW_20220705 Sampled By: Client on 05-JUL-22 @ 14:25 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.0072 | <T | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | 0.000090 | <DL | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.00144 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.0154 | | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | 0.0160 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | 0.0000020 | <DL | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 44.8 | | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | 0.000094 | <DL | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | 0.00148 | <T | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | 0.133 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Lead (Pb)-Dissolved | 0.00001 | <DL | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | 0.0052 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 15.0 | | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.0261 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822171 |
| Molybdenum (Mo)-Dissolved | 0.000946 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | 0.00136 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 1.17 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.00127 | | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | 0.000190 | <T | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 2.82 | | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 3.55 | | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.103 | | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | 2.6 | | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000035 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | 0.00048 | <DL | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | 0.000008 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | 0.00104 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00072 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | 0.0138 | DTC | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | 0.000304 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|---------|-------|-----------|-----------|----------|
| L2721276-13 SW26_SW_20220705 Sampled By: Client on 05-JUL-22 @ 14:25 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | 51 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5822221 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-14 FB_SW_20220705 Sampled By: Client on 05-JUL-22 @ 12:00 Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | <0.2 | <W | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 26-JUL-22 | |
| pH | 5.47 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | 0.5 | <DL | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | 0.11 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 18-JUL-22 | R5824676 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 13-JUL-22 | 14-JUL-22 | R5822227 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 05-JUL-22 | 15-JUL-22 | R5823558 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 19-JUL-22 | R5824836 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | PEHT | 2.0 | mg/L | | 04-AUG-22 | R5838178 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0008 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | 0.00001 | <DL | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-14 FB_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 12:00 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | 0.022 | <DL | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00032 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | 0.0010 | <DL | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | <0.00001 | <W | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 0.0006 | <DL | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822165 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | <0.00002 | <W | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | 0.000010 | <DL | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | <0.000005 | <W | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 0.036 | <DL | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | 0.020 | <DL | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | 0.000035 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | <0.00001 | <W | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | <0.00005 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | <0.0005 | <W | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | <0.000002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.0008 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | 0.0000084 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.000035 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-14 FB_SW_20220705 Sampled By: Client on 05-JUL-22 @ 12:00 Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Boron (B)-Dissolved | <0.0005 | <W | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | 0.018 | <DL | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00009 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 0.0025 | <DL | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822171 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 0.02 | <DL | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.000008 | <DL | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | 0.035 | <DL | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 0.040 | <DL | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.00006 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | 0.000060 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00020 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5822221 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2721276-15 TB_SW_20220705 Sampled By: Client on 05-JUL-22 @ 12:00 Matrix: G | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|-------|-----------|-----------|----------|
| L2721276-15 TB_SW_20220705 Sampled By: Client on 05-JUL-22 @ 12:00 Matrix: G | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 11-JUL-22 | R5820917 |
| Conductivity (EC) | <0.2 | <W | 1.0 | uS/cm | | 15-JUL-22 | R5822697 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 26-JUL-22 | |
| pH | 5.39 | | 0.10 | pH | | 15-JUL-22 | R5822697 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 10-JUL-22 | R5820203 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 10-JUL-22 | R5820266 |
| Turbidity | <0.10 | | 0.10 | NTU | | 11-JUL-22 | R5820758 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-JUL-22 | R5822697 |
| Ammonia, Total (as N) | 0.006 | <T | 0.0050 | mg/L | | 20-JUL-22 | R5826956 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 10-JUL-22 | 11-JUL-22 | R5820796 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-JUL-22 | R5820796 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-JUL-22 | R5820796 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821869 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 13-JUL-22 | 14-JUL-22 | R5822227 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 11-JUL-22 | R5820796 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0002 | <DL | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 12-JUL-22 | R5821780 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 05-JUL-22 | 15-JUL-22 | R5823558 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 19-JUL-22 | R5824836 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | PEHT | 2.0 | mg/L | | 04-AUG-22 | R5838178 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0008 | <DL | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00060 | mg/L | | 26-JUL-22 | R5828695 |
| Arsenic (As)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Barium (Ba)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 26-JUL-22 | R5828695 |
| Calcium (Ca)-Total | <0.002 | <W | 0.20 | mg/L | | 26-JUL-22 | R5828695 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 26-JUL-22 | R5828695 |
| Chromium (Cr)-Total | 0.00010 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 26-JUL-22 | R5828695 |
| Copper (Cu)-Total | 0.00024 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Iron (Fe)-Total | <0.0005 | <W | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Lead (Pb)-Total | <0.00001 | <W | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-15 TB_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 12:00 | | | | | | | |
| Matrix: G | | | | | | | |
| Total Metals | | | | | | | |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Magnesium (Mg)-Total | 0.0004 | <DL | 0.020 | mg/L | | 26-JUL-22 | R5828695 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822165 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Nickel (Ni)-Total | <0.00002 | <W | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 26-JUL-22 | R5828695 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Rubidium (Rb)-Total | <0.000002 | <W | 0.00020 | mg/L | | 26-JUL-22 | R5828695 |
| Selenium (Se)-Total | <0.000005 | <W | 0.000050 | mg/L | | 26-JUL-22 | R5828695 |
| Silicon (Si)-Total | 0.008 | <DL | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Sodium (Na)-Total | <0.005 | <W | 0.10 | mg/L | | 26-JUL-22 | R5828695 |
| Strontium (Sr)-Total | <0.000005 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 26-JUL-22 | R5828695 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 26-JUL-22 | R5828695 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 26-JUL-22 | R5828695 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Titanium (Ti)-Total | <0.00001 | <W | 0.0020 | mg/L | | 26-JUL-22 | R5828695 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 26-JUL-22 | R5828695 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 26-JUL-22 | R5828695 |
| Vanadium (V)-Total | 0.00005 | <DL | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Zinc (Zn)-Total | <0.0005 | <W | 0.0030 | mg/L | | 26-JUL-22 | R5828695 |
| Zirconium (Zr)-Total | <0.000002 | <W | 0.0010 | mg/L | | 26-JUL-22 | R5828695 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 20-JUL-22 | R5826536 |
| Aluminum (Al)-Dissolved | 0.0010 | <DL | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 21-JUL-22 | R5828021 |
| Arsenic (As)-Dissolved | <0.0000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Barium (Ba)-Dissolved | 0.000015 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Boron (B)-Dissolved | <0.0005 | <W | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 21-JUL-22 | R5828021 |
| Calcium (Ca)-Dissolved | <0.002 | <W | 0.20 | mg/L | | 21-JUL-22 | R5828021 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 21-JUL-22 | R5828021 |
| Chromium (Cr)-Dissolved | 0.00017 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 21-JUL-22 | R5828021 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Iron (Fe)-Dissolved | 0.0015 | <DL | 0.020 | mg/L | | 21-JUL-22 | R5828021 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2721276-15 TB_SW_20220705 | | | | | | | |
| Sampled By: Client on 05-JUL-22 @ 12:00 | | | | | | | |
| Matrix: G | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Magnesium (Mg)-Dissolved | 0.0030 | <DL | 0.020 | mg/L | | 21-JUL-22 | R5828021 |
| Manganese (Mn)-Dissolved | 0.00004 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-JUL-22 | R5822171 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Potassium (K)-Dissolved | 0.02 | <DL | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Rubidium (Rb)-Dissolved | 0.000008 | <DL | 0.00020 | mg/L | | 21-JUL-22 | R5828021 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 21-JUL-22 | R5828021 |
| Silicon (Si)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 21-JUL-22 | R5828021 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Sodium (Na)-Dissolved | 0.020 | <DL | 0.10 | mg/L | | 21-JUL-22 | R5828021 |
| Strontium (Sr)-Dissolved | 0.00004 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 21-JUL-22 | R5828021 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 21-JUL-22 | R5828021 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 21-JUL-22 | R5828021 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 21-JUL-22 | R5828021 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.010 | mg/L | | 21-JUL-22 | R5828021 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.0050 | mg/L | | 21-JUL-22 | R5828021 |
| Vanadium (V)-Dissolved | 0.00016 | <DL | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 21-JUL-22 | R5828021 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 21-JUL-22 | R5828021 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-JUL-22 | R5822502 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 09-JUL-22 | 12-JUL-22 | R5821528 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 13-JUL-22 | 13-JUL-22 | R5822221 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------|--------------------------|-----------|--|
| Matrix Spike | Calcium (Ca)-Dissolved | MS-B | L2721276-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Dissolved | MS-B | L2721276-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Total | MS-B | L2721276-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Total | MS-B | L2721276-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Manganese (Mn)-Total | MS-B | L2721276-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Total | MS-B | L2721276-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Total | MS-B | L2721276-1, -10, -11, -12, -13, -14, -15, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Total Organic Carbon | MS-B | L2721276-1, -2, -3, -4, -5 |
| Matrix Spike | Total Organic Carbon | MS-B | L2721276-10, -11, -12, -13, -14, -15, -6, -7, -8, -9 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|--|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| DLM | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |
| DTC | Dissolved concentration exceeds total. Results were confirmed by re-analysis. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| PEHT | Parameter Exceeded Recommended Holding Time Prior to Analysis |
| RRV | Reported Result Verified By Repeat Analysis |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|----------|---|--|
| ACIDITY-WT | Water | Acidity (as CaCO ₃) | APHA 2310 B - Potentiometric Titration |
| ACY-MISA-TB | Effluent | Acidity (as CaCO ₃) | APHA 2310 B-POTENTIOMETRIC TITRATION |
| Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample. | | | |
| ALK-MISA-TB | Effluent | Alkalinity, Total (as CaCO ₃) | APHA 2320 B-Auto-Pot. Titration |
| This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. | | | |
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
| All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation. | | | |
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
| This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis. | | | |
| CN-T-MISA-CFA-WT | Effluent | Total Cyanide by CFA | ISO 14403-2:2012 (modified) |
| This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. | | | |
| Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero. | | | |
| CN-WAD-MISA-CFA-WT | Effluent | Weak Acid Dissociable Cyanide by CFA | APHA 4500-CN CYANIDE (modified) |
| This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) | | | |

Reference Information

cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

| | | | |
|--------|-------|------------------------|------------|
| COD-TB | Water | Chemical Oxygen Demand | APHA 5220D |
|--------|-------|------------------------|------------|

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

| | | | |
|-----------|-------|--------------|-------------|
| COLOUR-TB | Water | Colour, True | APHA 2120 C |
|-----------|-------|--------------|-------------|

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

| | | | |
|--------|----------|-----------------------------------|--------------------------|
| DOC-WT | Effluent | Dissolved Organic Carbon for MISA | APHA 5310 B-Instrumental |
|--------|----------|-----------------------------------|--------------------------|

| | | | |
|------------|----------|-------------------|-----------------------|
| EC-MISA-TB | Effluent | Conductivity (EC) | APHA 2510 B-ELECTRODE |
|------------|----------|-------------------|-----------------------|

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

| | | | |
|--------------|-------|---|-----------|
| EC-SCREEN-WT | Water | Conductivity Screen (Internal Use Only) | APHA 2510 |
|--------------|-------|---|-----------|

Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.

| | | | |
|-----------|-------|-------------------------|-----------------|
| F-IC-N-TB | Water | Fluoride in Water by IC | EPA 300.1 (mod) |
|-----------|-------|-------------------------|-----------------|

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

| | | | |
|------------------|----------|----------------------------------|-------------|
| HARDNESS-CALC-TB | Effluent | Hardness (as CaCO ₃) | CALCULATION |
|------------------|----------|----------------------------------|-------------|

| | | | |
|-----------|----------|---------------------------------|-------------|
| HG-DIS-WT | Effluent | Mercury (Hg)-Dissolved for MISA | SW846 7470A |
|-----------|----------|---------------------------------|-------------|

| | | | |
|-----------|----------|-----------------------------|-------------|
| HG-TOT-WT | Effluent | Mercury (Hg)-Total for MISA | SW846 7470A |
|-----------|----------|-----------------------------|-------------|

| | | | |
|----------------|-------|---------------------------------------|----------------|
| MEHG-T-GCAF-VA | Water | Total Methylmercury in Water by GCAFS | EPA 1630 (mod) |
|----------------|-------|---------------------------------------|----------------|

This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".

| | | | |
|---------------|----------|----------------------------------|------------------------|
| MET-D-MISA-TB | Effluent | Dissolved Metals in Water (MISA) | APHA 3030B/6020B (mod) |
|---------------|----------|----------------------------------|------------------------|

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

| | | | |
|---------------|----------|------------------------------|-----------------------|
| MET-T-MISA-TB | Effluent | Total Metals in Water (MISA) | EPA 200.2/6020B (mod) |
|---------------|----------|------------------------------|-----------------------|

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

| | | | |
|---------------|----------|------------------------------|--|
| NH3-MISA-F-TB | Effluent | Ammonia by Discrete Analyzer | catnr 157/158 062217/99321057 (modified) |
|---------------|----------|------------------------------|--|

Ammonia is determined by Flow-injection analysis with fluorescence detection

| | | | |
|----------------|----------|------------------------|-----------------|
| NO2-MISA-IC-TB | Effluent | Nitrite in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|----------------|----------|------------------------|-----------------|
| NO3-MISA-IC-TB | Effluent | Nitrate in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|------------|----------|--------------------------------|--------------------------------|
| OGG-TOT-WT | Effluent | Oil and Grease, Total for MISA | APHA 5520 B-Hexane Gravimetric |
|------------|----------|--------------------------------|--------------------------------|

| | | | |
|--------------|-------|----|---------------------------|
| PH-CLIENT-TB | Water | pH | Result supplied by Client |
|--------------|-------|----|---------------------------|

| | | | |
|------------|----------|----|-----------------------|
| PH-MISA-TB | Effluent | pH | APHA 4500-H-ELECTRODE |
|------------|----------|----|-----------------------|

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH

Reference Information

electrode

PO4-DO-COL-TB Water Dissolved Orthophosphate APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

RA226-MMER-FC Water Ra226 by Alpha Scint, MDC=0.01 Bq/L EPA 903.1

SO4-MISA-IC-TB Effluent Sulfate in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

TDS-MISA-TB Effluent Total Dissolved Solids APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TKN-F-TB Water TKN in Water by Fluorescence catnr 157/158, 062818/99334821

Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection

TOC-WT Water Total Organic Carbon APHA 5310B

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

TSS-MISA-TB Effluent Total Suspended Solids APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB Water Turbidity APHA 2130 B-Nephelometer

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |
| FC | ALS ENVIRONMENTAL - FORT COLLINS, COLORADO, USA |
| VA | ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Page 1 of 29

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| ACIDITY-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5838178 | | | | | | | |
| WG3754583-3 | DUP | L2721276-12 | | | | | | |
| Acidity (as CaCO3) | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 20 | 04-AUG-22 |
| WG3754583-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 102 | | % | | 85-115 | 04-AUG-22 |
| WG3754583-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | <2.0 | | mg/L | | 3 | 04-AUG-22 |
| BOD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5822502 | | | | | | | |
| WG3747839-3 | DUP | L2721273-1 | | | | | | |
| Biochemical Oxygen Demand | | 3.5 | 3.7 | | mg/L | 5.6 | 30 | 10-JUL-22 |
| WG3747839-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 103.5 | | % | | 85-115 | 10-JUL-22 |
| WG3747839-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 10-JUL-22 |
| CL-L-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5820796 | | | | | | | |
| WG3747869-3 | DUP | L2721276-7 | | | | | | |
| Chloride (Cl) | | 3.85 | 3.89 | | mg/L | 1.0 | 20 | 11-JUL-22 |
| WG3747870-3 | DUP | L2721281-11 | | | | | | |
| Chloride (Cl) | | 0.60 | 0.58 | | mg/L | 3.1 | 20 | 11-JUL-22 |
| WG3747869-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 101.9 | | % | | 90-110 | 11-JUL-22 |
| WG3747870-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 100.9 | | % | | 90-110 | 11-JUL-22 |
| WG3747869-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 11-JUL-22 |
| WG3747870-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 11-JUL-22 |
| WG3747869-4 | MS | L2721276-8 | | | | | | |
| Chloride (Cl) | | | 99.2 | | % | | 75-125 | 11-JUL-22 |
| WG3747870-4 | MS | L2721281-12 | | | | | | |
| Chloride (Cl) | | | 77.8 | | % | | 75-125 | 11-JUL-22 |
| COD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5821528 | | | | | | | |
| WG3747819-3 | DUP | L2721274-1 | | | | | | |
| Chemical Oxygen Demand | | 12 | 12 | | mg/L | 1.8 | 20 | 12-JUL-22 |
| WG3747819-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| COD-TB | | Water | | | | | | |
| Batch | R5821528 | | | | | | | |
| WG3747819-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 107.5 | | % | | 85-115 | 12-JUL-22 |
| WG3747819-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 12-JUL-22 |
| WG3747819-4 | MS | L2721274-2 | | | | | | |
| Chemical Oxygen Demand | | | 109.6 | | % | | 75-125 | 12-JUL-22 |
| COLOUR-TB | | Water | | | | | | |
| Batch | R5820917 | | | | | | | |
| WG3747862-3 | DUP | L2721276-6 | | | | | | |
| Color, True | | 194 | 195 | | CU | 0.6 | 20 | 11-JUL-22 |
| WG3747863-3 | DUP | L2721276-7 | | | | | | |
| Color, True | | 311 | 313 | | CU | 0.7 | 20 | 11-JUL-22 |
| WG3747862-2 | LCS | | | | | | | |
| Color, True | | | 98.9 | | % | | 85-115 | 11-JUL-22 |
| WG3747863-2 | LCS | | | | | | | |
| Color, True | | | 102.2 | | % | | 85-115 | 11-JUL-22 |
| WG3747862-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 11-JUL-22 |
| WG3747863-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 11-JUL-22 |
| F-IC-N-TB | | Water | | | | | | |
| Batch | R5820796 | | | | | | | |
| WG3747869-3 | DUP | L2721276-7 | | | | | | |
| Fluoride (F) | | 0.042 | 0.035 | | mg/L | 20 | 20 | 11-JUL-22 |
| WG3747870-3 | DUP | L2721281-11 | | | | | | |
| Fluoride (F) | | <0.020 | <0.020 | RPD-NA | mg/L | N/A | 20 | 11-JUL-22 |
| WG3747869-2 | LCS | | | | | | | |
| Fluoride (F) | | | 107.0 | | % | | 90-110 | 11-JUL-22 |
| WG3747870-2 | LCS | | | | | | | |
| Fluoride (F) | | | 104.8 | | % | | 90-110 | 11-JUL-22 |
| WG3747869-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 11-JUL-22 |
| WG3747870-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 11-JUL-22 |
| WG3747869-4 | MS | L2721276-8 | | | | | | |
| Fluoride (F) | | | 104.0 | | % | | 75-125 | 11-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|-----------------|--------------------|-----------|-----------|-------|-----|---------|-----------|
| F-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5821823 | | | | | | | |
| WG3748915-3 | DUP | L2721934-1 | | | | | | |
| Fluoride (F) | | 0.045 | 0.044 | | mg/L | 1.0 | 20 | 13-JUL-22 |
| WG3748915-2 | LCS | | | | | | | |
| Fluoride (F) | | | 101.1 | | % | | 90-110 | 13-JUL-22 |
| WG3748915-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 13-JUL-22 |
| WG3747870-4 | MS | L2721281-12 | | | | | | |
| Fluoride (F) | | | 88.1 | | % | | 75-125 | 13-JUL-22 |
| WG3748915-4 | MS | L2721934-2 | | | | | | |
| Fluoride (F) | | | 86.2 | | % | | 75-125 | 13-JUL-22 |
| MEHG-T-GCAF-VA | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5840199 | | | | | | | |
| WG3757198-2 | DUP | L2724410-19 | | | | | | |
| Methylmercury (as MeHg)-Total | | 0.00107 | 0.00100 | | ug/L | 6.6 | 30 | 12-AUG-22 |
| WG3757198-3 | LCS | | | | | | | |
| Methylmercury (as MeHg)-Total | | | 90.6 | | % | | 70-130 | 12-AUG-22 |
| WG3757198-1 | MB | | | | | | | |
| Methylmercury (as MeHg)-Total | | | <0.000020 | | ug/L | | 0.00002 | 12-AUG-22 |
| WG3757198-4 | MS | L2724678-2 | | | | | | |
| Methylmercury (as MeHg)-Total | | | 97.6 | | % | | 60-140 | 12-AUG-22 |
| PO4-DO-COL-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5821812 | | | | | | | |
| WG3747865-3 | DUP | L2721273-1 | | | | | | |
| Orthophosphate-Dissolved (as P) | | 0.0027 | 0.0029 | | mg/L | 8.9 | 20 | 11-JUL-22 |
| WG3747865-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 107.4 | | % | | 80-120 | 11-JUL-22 |
| WG3747865-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0010 | | mg/L | | 0.001 | 11-JUL-22 |
| WG3747865-4 | MS | L2721273-2 | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 109.4 | | % | | 70-130 | 11-JUL-22 |
| Batch | R5822227 | | | | | | | |
| WG3748908-3 | DUP | L2721912-1 | | | | | | |
| Orthophosphate-Dissolved (as P) | | 0.0191 | 0.0179 | | mg/L | 6.4 | 20 | 14-JUL-22 |
| WG3748908-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 97.2 | | % | | 80-120 | 14-JUL-22 |
| WG3748908-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0010 | | mg/L | | 0.001 | 14-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| TKN-F-TB | | Water | | | | | | |
| Batch | R5821869 | | | | | | | |
| WG3747811-3 | DUP | L2721274-1 | | | | | | |
| Total Kjeldahl Nitrogen | | 20.1 | 22.9 | | mg/L | 13 | 20 | 12-JUL-22 |
| WG3747811-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 122.9 | | % | | 75-125 | 12-JUL-22 |
| WG3747811-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 12-JUL-22 |
| TOC-WT | | Water | | | | | | |
| Batch | R5824836 | | | | | | | |
| WG3749840-3 | DUP | WG3749840-5 | | | | | | |
| Total Organic Carbon | | 39.9 | 38.4 | | mg/L | 3.8 | 20 | 19-JUL-22 |
| WG3749840-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 92.0 | | % | | 80-120 | 19-JUL-22 |
| WG3749840-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 19-JUL-22 |
| WG3749840-4 | MS | WG3749840-5 | | | | | | |
| Total Organic Carbon | | | N/A | MS-B | % | | - | 19-JUL-22 |
| Batch | R5827299 | | | | | | | |
| WG3748813-3 | DUP | L2721655-1 | | | | | | |
| Total Organic Carbon | | 154 | 168 | | mg/L | 8.8 | 20 | 20-JUL-22 |
| WG3748813-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 105.9 | | % | | 80-120 | 20-JUL-22 |
| WG3748813-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 20-JUL-22 |
| WG3748813-4 | MS | L2721655-1 | | | | | | |
| Total Organic Carbon | | | N/A | MS-B | % | | - | 20-JUL-22 |
| TURBIDITY-TB | | Water | | | | | | |
| Batch | R5820758 | | | | | | | |
| WG3748169-3 | DUP | L2721154-1 | | | | | | |
| Turbidity | | 32.4 | 32.8 | | NTU | 1.2 | 15 | 11-JUL-22 |
| WG3748169-6 | DUP | L2721276-10 | | | | | | |
| Turbidity | | 7.69 | 7.34 | | NTU | 4.7 | 15 | 11-JUL-22 |
| WG3748169-2 | LCS | | | | | | | |
| Turbidity | | | 99.9 | | % | | 85-115 | 11-JUL-22 |
| WG3748169-5 | LCS | | | | | | | |
| Turbidity | | | 99.9 | | % | | 85-115 | 11-JUL-22 |
| WG3748169-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 11-JUL-22 |
| WG3748169-4 | MB | | | | | | | |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|-------------------|---------|-----------|-------|-----|--------|-----------|
| TURBIDITY-TB | | Water | | | | | | |
| Batch | R5820758 | | | | | | | |
| WG3748169-4 MB | | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 11-JUL-22 |
| ACY-MISA-TB | | Effluent | | | | | | |
| Batch | R5828132 | | | | | | | |
| WG3747856-2 LCS | | | | | | | | |
| Acidity (as CaCO3) | | | 104.9 | | % | | 85-115 | 22-JUL-22 |
| WG3747856-1 MB | | | | | | | | |
| Acidity (as CaCO3) | | | 1.6 | | mg/L | | 3 | 22-JUL-22 |
| ALK-MISA-TB | | Effluent | | | | | | |
| Batch | R5822697 | | | | | | | |
| WG3747850-3 DUP | | L2721274-3 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 167 | 171 | | mg/L | 2.9 | 20 | 15-JUL-22 |
| Alkalinity, Phenolphthalein | | <0.2 | <0.2 | RPD-NA | mg/L | N/A | 25 | 15-JUL-22 |
| WG3747850-2 LCS | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 110.9 | | % | | 85-115 | 15-JUL-22 |
| WG3747850-1 MB | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 0.4 | | mg/L | | 2 | 15-JUL-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 15-JUL-22 |
| CN-FREE-MISA-CFA-WT | | Effluent | | | | | | |
| Batch | R5821780 | | | | | | | |
| WG3748608-3 DUP | | L2721276-1 | | | | | | |
| Cyanide, Free | | <0.0001 | <0.0001 | RPD-NA | mg/L | N/A | 20 | 12-JUL-22 |
| WG3748608-7 DUP | | L2721273-2 | | | | | | |
| Cyanide, Free | | 0.0005 | 0.0007 | RPD-NA | mg/L | N/A | 20 | 12-JUL-22 |
| WG3748608-2 LCS | | | | | | | | |
| Cyanide, Free | | | 102.7 | | % | | 80-120 | 12-JUL-22 |
| WG3748608-6 LCS | | | | | | | | |
| Cyanide, Free | | | 102.8 | | % | | 80-120 | 12-JUL-22 |
| WG3748608-1 MB | | | | | | | | |
| Cyanide, Free | | | 0.0004 | | mg/L | | 0.002 | 12-JUL-22 |
| WG3748608-5 MB | | | | | | | | |
| Cyanide, Free | | | <0.0001 | | mg/L | | 0.002 | 12-JUL-22 |
| WG3748608-4 MS | | L2721276-1 | | | | | | |
| Cyanide, Free | | | 103.9 | | % | | 75-125 | 12-JUL-22 |
| WG3748608-8 MS | | L2721273-2 | | | | | | |
| Cyanide, Free | | | 98.7 | | % | | 75-125 | 12-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Page 6 of 29

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|---------|-----------|-------|-----|--------|-----------|
| CN-T-MISA-CFA-WT | | Effluent | | | | | | |
| Batch | R5821780 | | | | | | | |
| WG3748608-3 | DUP | L2721276-1 | | | | | | |
| Cyanide, Total | | 0.0010 | <0.0002 | RPD-NA | mg/L | N/A | 20 | 12-JUL-22 |
| WG3748608-7 | DUP | L2721273-2 | | | | | | |
| Cyanide, Total | | 0.0002 | 0.0002 | RPD-NA | mg/L | N/A | 20 | 12-JUL-22 |
| WG3748608-2 | LCS | | | | | | | |
| Cyanide, Total | | | 96.3 | | % | | 80-120 | 12-JUL-22 |
| WG3748608-6 | LCS | | | | | | | |
| Cyanide, Total | | | 98.2 | | % | | 80-120 | 12-JUL-22 |
| WG3748608-1 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 12-JUL-22 |
| WG3748608-5 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 12-JUL-22 |
| WG3748608-4 | MS | L2721276-1 | | | | | | |
| Cyanide, Total | | | 85.7 | | % | | 75-125 | 12-JUL-22 |
| WG3748608-8 | MS | L2721273-2 | | | | | | |
| Cyanide, Total | | | 91.7 | | % | | 75-125 | 12-JUL-22 |
| CN-WAD-MISA-CFA-WT | | Effluent | | | | | | |
| Batch | R5821780 | | | | | | | |
| WG3748608-3 | DUP | L2721276-1 | | | | | | |
| Cyanide, Weak Acid Diss | | 0.0003 | <0.0001 | RPD-NA | mg/L | N/A | 20 | 12-JUL-22 |
| WG3748608-7 | DUP | L2721273-2 | | | | | | |
| Cyanide, Weak Acid Diss | | <0.0001 | <0.0001 | RPD-NA | mg/L | N/A | 20 | 12-JUL-22 |
| WG3748608-2 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 110.1 | | % | | 80-120 | 12-JUL-22 |
| WG3748608-6 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 111.4 | | % | | 80-120 | 12-JUL-22 |
| WG3748608-1 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 12-JUL-22 |
| WG3748608-5 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | 0.0002 | | mg/L | | 0.002 | 12-JUL-22 |
| WG3748608-4 | MS | L2721276-1 | | | | | | |
| Cyanide, Weak Acid Diss | | | 105.3 | | % | | 75-125 | 12-JUL-22 |
| WG3748608-8 | MS | L2721273-2 | | | | | | |
| Cyanide, Weak Acid Diss | | | 106.3 | | % | | 75-125 | 12-JUL-22 |

DOC-WT **Effluent**



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|------------|--------------------|-----------|-----------|-------|-----|----------|-----------|
| DOC-WT Effluent | | | | | | | | |
| Batch R5823558 | | | | | | | | |
| WG3749410-3 | DUP | WG3749410-5 | | | | | | |
| Dissolved Organic Carbon | | 32.7 | 33.2 | | mg/L | 1.5 | 25 | 15-JUL-22 |
| WG3749410-2 | LCS | | | | | | | |
| Dissolved Organic Carbon | | | 99.3 | | % | | 70-130 | 15-JUL-22 |
| WG3749410-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 15-JUL-22 |
| Batch R5827301 | | | | | | | | |
| WG3748990-3 | DUP | WG3748990-5 | | | | | | |
| Dissolved Organic Carbon | | <0.50 | <0.50 | RPD-NA | mg/L | N/A | 25 | 20-JUL-22 |
| WG3748990-2 | LCS | | | | | | | |
| Dissolved Organic Carbon | | | 98.6 | | % | | 70-130 | 20-JUL-22 |
| WG3748990-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 20-JUL-22 |
| EC-MISA-TB Effluent | | | | | | | | |
| Batch R5822697 | | | | | | | | |
| WG3747850-3 | DUP | L2721274-3 | | | | | | |
| Conductivity (EC) | | 403 | 389 | | uS/cm | 3.5 | 10 | 15-JUL-22 |
| WG3747850-2 | LCS | | | | | | | |
| Conductivity (EC) | | | 103.4 | | % | | 90-110 | 15-JUL-22 |
| WG3747850-1 | MB | | | | | | | |
| Conductivity (EC) | | | 0.4 | | uS/cm | | 2 | 15-JUL-22 |
| HG-DIS-WT Effluent | | | | | | | | |
| Batch R5822166 | | | | | | | | |
| WG3748812-3 | DUP | L2721273-1 | | | | | | |
| Mercury (Hg)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 14-JUL-22 |
| WG3748812-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 103.0 | | % | | 80-120 | 14-JUL-22 |
| WG3748812-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.000005 | 14-JUL-22 |
| WG3748812-4 | MS | L2721273-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 94.4 | | % | | 70-130 | 14-JUL-22 |
| Batch R5822171 | | | | | | | | |
| WG3748814-3 | DUP | L2721276-13 | | | | | | |
| Mercury (Hg)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 14-JUL-22 |
| WG3748814-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 102.0 | | % | | 80-120 | 14-JUL-22 |
| WG3748814-1 | MB | | | | | | | |
| | | | | | | | 0.000005 | |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON POW 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------------|--------|-------------|-----------|-----------|-------|-----|----------|-----------|
| HG-DIS-WT Effluent | | | | | | | | |
| Batch R5822171 | | | | | | | | |
| WG3748814-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.000005 | 14-JUL-22 |
| WG3748814-4 | MS | L2721276-14 | | | | | | |
| Mercury (Hg)-Dissolved | | | 95.3 | | % | | 70-130 | 14-JUL-22 |
| HG-TOT-WT Effluent | | | | | | | | |
| Batch R5822115 | | | | | | | | |
| WG3748816-3 | DUP | L2721273-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 14-JUL-22 |
| WG3748816-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 101.0 | | % | | 80-120 | 14-JUL-22 |
| WG3748816-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.000005 | 14-JUL-22 |
| WG3748816-4 | MS | L2721273-2 | | | | | | |
| Mercury (Hg)-Total | | | 93.5 | | % | | 70-130 | 14-JUL-22 |
| Batch R5822165 | | | | | | | | |
| WG3748819-3 | DUP | L2721276-13 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 14-JUL-22 |
| WG3748819-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 104.0 | | % | | 80-120 | 14-JUL-22 |
| WG3748819-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.000005 | 14-JUL-22 |
| WG3748819-4 | MS | L2721276-14 | | | | | | |
| Mercury (Hg)-Total | | | 100.0 | | % | | 70-130 | 14-JUL-22 |
| MET-D-MISA-TB Effluent | | | | | | | | |
| Batch R5828021 | | | | | | | | |
| WG3750818-27 | DUP | L2721276-1 | | | | | | |
| Aluminum (Al)-Dissolved | | 0.0134 | 0.0136 | | mg/L | 1.6 | 20 | 21-JUL-22 |
| Antimony (Sb)-Dissolved | | 0.000045 | 0.000045 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Arsenic (As)-Dissolved | | 0.00127 | 0.00130 | | mg/L | 2.3 | 20 | 21-JUL-22 |
| Barium (Ba)-Dissolved | | 0.0161 | 0.0164 | | mg/L | 2.0 | 20 | 21-JUL-22 |
| Beryllium (Be)-Dissolved | | 0.000002 | 0.000004 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Bismuth (Bi)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Boron (B)-Dissolved | | 0.0120 | 0.0110 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Cadmium (Cd)-Dissolved | | 0.0000030 | 0.0000030 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Calcium (Ca)-Dissolved | | 29.1 | 30.0 | | mg/L | 3.2 | 20 | 21-JUL-22 |
| Cesium (Cs)-Dissolved | | <0.0000005 | 0.0000010 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-------------------|-----------------|-----------|-----------|-------|----------|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5828021 | | | | | | | |
| WG3750818-27 DUP | L2721276-1 | | | | | | | |
| Chromium (Cr)-Dissolved | | 0.00019 | 0.00023 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Cobalt (Co)-Dissolved | | 0.000204 | 0.000208 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Copper (Cu)-Dissolved | | 0.00054 | 0.00052 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Iron (Fe)-Dissolved | | 0.344 | 0.346 | | mg/L | 0.8 | 20 | 21-JUL-22 |
| Lead (Pb)-Dissolved | | 0.00004 | 0.00005 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Lithium (Li)-Dissolved | | 0.0032 | 0.0032 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Magnesium (Mg)-Dissolved | | 12.2 | 12.1 | | mg/L | 1.0 | 20 | 21-JUL-22 |
| Manganese (Mn)-Dissolved | | 0.0741 | 0.0749 | | mg/L | 1.0 | 20 | 21-JUL-22 |
| Molybdenum (Mo)-Dissolved | | 0.000348 | 0.000350 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Nickel (Ni)-Dissolved | | 0.00120 | 0.00128 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Phosphorus (P)-Dissolved | | 0.025 | 0.030 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Potassium (K)-Dissolved | | 1.10 | 1.10 | | mg/L | 0.3 | 20 | 21-JUL-22 |
| Rubidium (Rb)-Dissolved | | 0.00141 | 0.00140 | | mg/L | 1.2 | 20 | 21-JUL-22 |
| Selenium (Se)-Dissolved | | 0.000135 | 0.000170 | J | mg/L | 0.000033 | 0.0001 | 21-JUL-22 |
| Silicon (Si)-Dissolved | | 4.27 | 4.33 | | mg/L | 1.4 | 20 | 21-JUL-22 |
| Silver (Ag)-Dissolved | | 0.0000010 | 0.0000020 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Sodium (Na)-Dissolved | | 6.55 | 6.57 | | mg/L | 0.3 | 20 | 21-JUL-22 |
| Strontium (Sr)-Dissolved | | 0.0761 | 0.0761 | | mg/L | 0.0 | 20 | 21-JUL-22 |
| Sulfur (S)-Dissolved | | <0.2 | 0.2 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Tellurium (Te)-Dissolved | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Thallium (Tl)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Thorium (Th)-Dissolved | | <0.00001 | 0.00001 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Tin (Sn)-Dissolved | | 0.000030 | 0.000025 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Titanium (Ti)-Dissolved | | 0.00080 | 0.00078 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Tungsten (W)-Dissolved | | 0.000014 | 0.000012 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Uranium (U)-Dissolved | | 0.000227 | 0.000240 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| Vanadium (V)-Dissolved | | 0.00118 | 0.00122 | | mg/L | 4.2 | 20 | 21-JUL-22 |
| Zinc (Zn)-Dissolved | | 0.0052 | 0.0054 | | mg/L | 3.2 | 20 | 21-JUL-22 |
| Zirconium (Zr)-Dissolved | | 0.000320 | 0.000340 | RPD-NA | mg/L | N/A | 20 | 21-JUL-22 |
| WG3750818-26 LCS | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 97.6 | | % | | 80-120 | 21-JUL-22 |
| Antimony (Sb)-Dissolved | | | 102.9 | | % | | 80-120 | 21-JUL-22 |
| Arsenic (As)-Dissolved | | | 101.8 | | % | | 80-120 | 21-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5828021 | | | | | | | |
| WG3750818-26 | LCS | | | | | | | |
| Barium (Ba)-Dissolved | | | 100.5 | | % | | 80-120 | 21-JUL-22 |
| Beryllium (Be)-Dissolved | | | 100.3 | | % | | 80-120 | 21-JUL-22 |
| Bismuth (Bi)-Dissolved | | | 103.8 | | % | | 80-120 | 21-JUL-22 |
| Boron (B)-Dissolved | | | 104.6 | | % | | 80-120 | 21-JUL-22 |
| Cadmium (Cd)-Dissolved | | | 98.6 | | % | | 80-120 | 21-JUL-22 |
| Calcium (Ca)-Dissolved | | | 100.6 | | % | | 80-120 | 21-JUL-22 |
| Cesium (Cs)-Dissolved | | | 101.7 | | % | | 80-120 | 21-JUL-22 |
| Chromium (Cr)-Dissolved | | | 102.3 | | % | | 80-120 | 21-JUL-22 |
| Cobalt (Co)-Dissolved | | | 98.7 | | % | | 80-120 | 21-JUL-22 |
| Copper (Cu)-Dissolved | | | 98.1 | | % | | 80-120 | 21-JUL-22 |
| Iron (Fe)-Dissolved | | | 110.0 | | % | | 80-120 | 21-JUL-22 |
| Lead (Pb)-Dissolved | | | 103.4 | | % | | 80-120 | 21-JUL-22 |
| Lithium (Li)-Dissolved | | | 99.4 | | % | | 80-120 | 21-JUL-22 |
| Magnesium (Mg)-Dissolved | | | 99.3 | | % | | 80-120 | 21-JUL-22 |
| Manganese (Mn)-Dissolved | | | 101.0 | | % | | 80-120 | 21-JUL-22 |
| Molybdenum (Mo)-Dissolved | | | 102.7 | | % | | 80-120 | 21-JUL-22 |
| Nickel (Ni)-Dissolved | | | 97.4 | | % | | 80-120 | 21-JUL-22 |
| Phosphorus (P)-Dissolved | | | 104.4 | | % | | 70-130 | 21-JUL-22 |
| Potassium (K)-Dissolved | | | 108.3 | | % | | 80-120 | 21-JUL-22 |
| Rubidium (Rb)-Dissolved | | | 99.4 | | % | | 80-120 | 21-JUL-22 |
| Selenium (Se)-Dissolved | | | 102.0 | | % | | 80-120 | 21-JUL-22 |
| Silicon (Si)-Dissolved | | | 104.0 | | % | | 60-140 | 21-JUL-22 |
| Silver (Ag)-Dissolved | | | 94.9 | | % | | 80-120 | 21-JUL-22 |
| Sodium (Na)-Dissolved | | | 102.0 | | % | | 80-120 | 21-JUL-22 |
| Strontium (Sr)-Dissolved | | | 98.9 | | % | | 80-120 | 21-JUL-22 |
| Sulfur (S)-Dissolved | | | 80.3 | | % | | 80-120 | 21-JUL-22 |
| Tellurium (Te)-Dissolved | | | 104.8 | | % | | 80-120 | 21-JUL-22 |
| Thallium (Tl)-Dissolved | | | 102.8 | | % | | 80-120 | 21-JUL-22 |
| Thorium (Th)-Dissolved | | | 103.8 | | % | | 80-120 | 21-JUL-22 |
| Tin (Sn)-Dissolved | | | 99.8 | | % | | 80-120 | 21-JUL-22 |
| Titanium (Ti)-Dissolved | | | 96.8 | | % | | 80-120 | 21-JUL-22 |
| Tungsten (W)-Dissolved | | | 103.3 | | % | | 80-120 | 21-JUL-22 |
| Uranium (U)-Dissolved | | | 102.6 | | % | | 80-120 | 21-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5828021 | | | | | | | |
| WG3750818-26 LCS | | | | | | | | |
| Vanadium (V)-Dissolved | | | 100.8 | | % | | 80-120 | 21-JUL-22 |
| Zinc (Zn)-Dissolved | | | 104.8 | | % | | 80-120 | 21-JUL-22 |
| Zirconium (Zr)-Dissolved | | | 102.0 | | % | | 80-120 | 21-JUL-22 |
| WG3750818-30 LCS | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 98.9 | | % | | 80-120 | 21-JUL-22 |
| Antimony (Sb)-Dissolved | | | 108.6 | | % | | 80-120 | 21-JUL-22 |
| Arsenic (As)-Dissolved | | | 100.8 | | % | | 80-120 | 21-JUL-22 |
| Barium (Ba)-Dissolved | | | 101.3 | | % | | 80-120 | 21-JUL-22 |
| Beryllium (Be)-Dissolved | | | 105.8 | | % | | 80-120 | 21-JUL-22 |
| Bismuth (Bi)-Dissolved | | | 109.3 | | % | | 80-120 | 21-JUL-22 |
| Boron (B)-Dissolved | | | 106.6 | | % | | 80-120 | 21-JUL-22 |
| Cadmium (Cd)-Dissolved | | | 99.1 | | % | | 80-120 | 21-JUL-22 |
| Calcium (Ca)-Dissolved | | | 106.5 | | % | | 80-120 | 21-JUL-22 |
| Cesium (Cs)-Dissolved | | | 108.0 | | % | | 80-120 | 21-JUL-22 |
| Chromium (Cr)-Dissolved | | | 100.9 | | % | | 80-120 | 21-JUL-22 |
| Cobalt (Co)-Dissolved | | | 98.7 | | % | | 80-120 | 21-JUL-22 |
| Copper (Cu)-Dissolved | | | 97.9 | | % | | 80-120 | 21-JUL-22 |
| Iron (Fe)-Dissolved | | | 107.0 | | % | | 80-120 | 21-JUL-22 |
| Lead (Pb)-Dissolved | | | 109.7 | | % | | 80-120 | 21-JUL-22 |
| Lithium (Li)-Dissolved | | | 105.4 | | % | | 80-120 | 21-JUL-22 |
| Magnesium (Mg)-Dissolved | | | 98.1 | | % | | 80-120 | 21-JUL-22 |
| Manganese (Mn)-Dissolved | | | 99.95 | | % | | 80-120 | 21-JUL-22 |
| Molybdenum (Mo)-Dissolved | | | 105.5 | | % | | 80-120 | 21-JUL-22 |
| Nickel (Ni)-Dissolved | | | 97.1 | | % | | 80-120 | 21-JUL-22 |
| Phosphorus (P)-Dissolved | | | 100.5 | | % | | 70-130 | 21-JUL-22 |
| Potassium (K)-Dissolved | | | 108.0 | | % | | 80-120 | 21-JUL-22 |
| Rubidium (Rb)-Dissolved | | | 99.5 | | % | | 80-120 | 21-JUL-22 |
| Selenium (Se)-Dissolved | | | 102.6 | | % | | 80-120 | 21-JUL-22 |
| Silicon (Si)-Dissolved | | | 103.4 | | % | | 60-140 | 21-JUL-22 |
| Silver (Ag)-Dissolved | | | 99.9 | | % | | 80-120 | 21-JUL-22 |
| Sodium (Na)-Dissolved | | | 100.6 | | % | | 80-120 | 21-JUL-22 |
| Strontium (Sr)-Dissolved | | | 102.8 | | % | | 80-120 | 21-JUL-22 |
| Sulfur (S)-Dissolved | | | 95.4 | | % | | 80-120 | 21-JUL-22 |
| Tellurium (Te)-Dissolved | | | 119.8 | | % | | 80-120 | 21-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5828021 | | | | | | | |
| WG3750818-30 LCS | | | | | | | | |
| Thallium (Tl)-Dissolved | | | 109.9 | | % | | 80-120 | 21-JUL-22 |
| Thorium (Th)-Dissolved | | | 109.6 | | % | | 80-120 | 21-JUL-22 |
| Tin (Sn)-Dissolved | | | 101.8 | | % | | 80-120 | 21-JUL-22 |
| Titanium (Ti)-Dissolved | | | 95.5 | | % | | 80-120 | 21-JUL-22 |
| Tungsten (W)-Dissolved | | | 112.3 | | % | | 80-120 | 21-JUL-22 |
| Uranium (U)-Dissolved | | | 110.2 | | % | | 80-120 | 21-JUL-22 |
| Vanadium (V)-Dissolved | | | 98.9 | | % | | 80-120 | 21-JUL-22 |
| Zinc (Zn)-Dissolved | | | 108.6 | | % | | 80-120 | 21-JUL-22 |
| Zirconium (Zr)-Dissolved | | | 103.0 | | % | | 80-120 | 21-JUL-22 |
| WG3750818-25 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0002 | | mg/L | | 0.005 | 21-JUL-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 21-JUL-22 |
| Arsenic (As)-Dissolved | | | 0.0000182 | | mg/L | | 0.001 | 21-JUL-22 |
| Barium (Ba)-Dissolved | | | <0.000005 | | mg/L | | 0.01 | 21-JUL-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 21-JUL-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 21-JUL-22 |
| Boron (B)-Dissolved | | | 0.0010 | | mg/L | | 0.05 | 21-JUL-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000005 | | mg/L | | 0.000017 | 21-JUL-22 |
| Calcium (Ca)-Dissolved | | | <0.002 | | mg/L | | 0.2 | 21-JUL-22 |
| Cesium (Cs)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 21-JUL-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 21-JUL-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 21-JUL-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 21-JUL-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 21-JUL-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 21-JUL-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 21-JUL-22 |
| Magnesium (Mg)-Dissolved | | | 0.0015 | | mg/L | | 0.02 | 21-JUL-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 21-JUL-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 21-JUL-22 |
| Nickel (Ni)-Dissolved | | | 0.00018 | | mg/L | | 0.002 | 21-JUL-22 |
| Phosphorus (P)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 21-JUL-22 |
| Potassium (K)-Dissolved | | | <0.01 | | mg/L | | 0.5 | 21-JUL-22 |
| Rubidium (Rb)-Dissolved | | | 0.000008 | | mg/L | | 0.0002 | 21-JUL-22 |
| Selenium (Se)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 21-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5828021 | | | | | | | |
| WG3750818-25 MB | | | | | | | | |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 21-JUL-22 |
| Silver (Ag)-Dissolved | | | <0.000000E | | mg/L | | 0.0001 | 21-JUL-22 |
| Sodium (Na)-Dissolved | | | 0.030 | | mg/L | | 0.1 | 21-JUL-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 21-JUL-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 21-JUL-22 |
| Tellurium (Te)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 21-JUL-22 |
| Thallium (Tl)-Dissolved | | | <0.000002 | | mg/L | | 0.0003 | 21-JUL-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 21-JUL-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 21-JUL-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 21-JUL-22 |
| Tungsten (W)-Dissolved | | | 0.000006 | | mg/L | | 0.01 | 21-JUL-22 |
| Uranium (U)-Dissolved | | | <0.000000E | | mg/L | | 0.005 | 21-JUL-22 |
| Vanadium (V)-Dissolved | | | 0.00016 | | mg/L | | 0.001 | 21-JUL-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.003 | 21-JUL-22 |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 21-JUL-22 |
| WG3750818-29 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 0.0006 | | mg/L | | 0.005 | 21-JUL-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 21-JUL-22 |
| Arsenic (As)-Dissolved | | | 0.0000180 | | mg/L | | 0.001 | 21-JUL-22 |
| Barium (Ba)-Dissolved | | | 0.000030 | | mg/L | | 0.01 | 21-JUL-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 21-JUL-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 21-JUL-22 |
| Boron (B)-Dissolved | | | 0.0015 | | mg/L | | 0.05 | 21-JUL-22 |
| Cadmium (Cd)-Dissolved | | | <0.000000E | | mg/L | | 0.000017 | 21-JUL-22 |
| Calcium (Ca)-Dissolved | | | <0.002 | | mg/L | | 0.2 | 21-JUL-22 |
| Cesium (Cs)-Dissolved | | | <0.000000E | | mg/L | | 0.00001 | 21-JUL-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 21-JUL-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 21-JUL-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 21-JUL-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 21-JUL-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 21-JUL-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 21-JUL-22 |
| Magnesium (Mg)-Dissolved | | | 0.0020 | | mg/L | | 0.02 | 21-JUL-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 21-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|---------------------------|-------------------|------------|-----------|-------|-----|---------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5828021 | | | | | | | |
| WG3750818-29 MB | | | | | | | | |
| | Molybdenum (Mo)-Dissolved | | <0.000002 | | mg/L | | 0.001 | 21-JUL-22 |
| | Nickel (Ni)-Dissolved | | 0.00010 | | mg/L | | 0.002 | 21-JUL-22 |
| | Phosphorus (P)-Dissolved | | <0.005 | | mg/L | | 0.05 | 21-JUL-22 |
| | Potassium (K)-Dissolved | | 0.02 | | mg/L | | 0.5 | 21-JUL-22 |
| | Rubidium (Rb)-Dissolved | | 0.000006 | | mg/L | | 0.0002 | 21-JUL-22 |
| | Selenium (Se)-Dissolved | | <0.000005 | | mg/L | | 0.00005 | 21-JUL-22 |
| | Silicon (Si)-Dissolved | | <0.005 | | mg/L | | 0.05 | 21-JUL-22 |
| | Silver (Ag)-Dissolved | | <0.0000005 | | mg/L | | 0.0001 | 21-JUL-22 |
| | Sodium (Na)-Dissolved | | 0.035 | | mg/L | | 0.1 | 21-JUL-22 |
| | Strontium (Sr)-Dissolved | | <0.00002 | | mg/L | | 0.001 | 21-JUL-22 |
| | Sulfur (S)-Dissolved | | <0.2 | | mg/L | | 0.5 | 21-JUL-22 |
| | Tellurium (Te)-Dissolved | | <0.00001 | | mg/L | | 0.001 | 21-JUL-22 |
| | Thallium (Tl)-Dissolved | | <0.000002 | | mg/L | | 0.0003 | 21-JUL-22 |
| | Thorium (Th)-Dissolved | | <0.00001 | | mg/L | | 0.0001 | 21-JUL-22 |
| | Tin (Sn)-Dissolved | | <0.000005 | | mg/L | | 0.001 | 21-JUL-22 |
| | Titanium (Ti)-Dissolved | | <0.00002 | | mg/L | | 0.002 | 21-JUL-22 |
| | Tungsten (W)-Dissolved | | 0.000002 | | mg/L | | 0.01 | 21-JUL-22 |
| | Uranium (U)-Dissolved | | <0.0000005 | | mg/L | | 0.005 | 21-JUL-22 |
| | Vanadium (V)-Dissolved | | 0.00022 | | mg/L | | 0.001 | 21-JUL-22 |
| | Zinc (Zn)-Dissolved | | <0.0002 | | mg/L | | 0.003 | 21-JUL-22 |
| | Zirconium (Zr)-Dissolved | | <0.000002 | | mg/L | | 0.001 | 21-JUL-22 |
| WG3750818-28 MS | | L2721276-2 | | | | | | |
| | Aluminum (Al)-Dissolved | | 109.0 | | % | | 70-130 | 21-JUL-22 |
| | Antimony (Sb)-Dissolved | | 118.1 | | % | | 70-130 | 21-JUL-22 |
| | Arsenic (As)-Dissolved | | 113.4 | | % | | 70-130 | 21-JUL-22 |
| | Barium (Ba)-Dissolved | | 113.0 | | % | | 70-130 | 21-JUL-22 |
| | Beryllium (Be)-Dissolved | | 116.1 | | % | | 70-130 | 21-JUL-22 |
| | Bismuth (Bi)-Dissolved | | 114.8 | | % | | 70-130 | 21-JUL-22 |
| | Boron (B)-Dissolved | | 112.6 | | % | | 70-130 | 21-JUL-22 |
| | Cadmium (Cd)-Dissolved | | 115.7 | | % | | 70-130 | 21-JUL-22 |
| | Calcium (Ca)-Dissolved | | N/A | MS-B | % | | - | 21-JUL-22 |
| | Cesium (Cs)-Dissolved | | 120.3 | | % | | 70-130 | 21-JUL-22 |
| | Chromium (Cr)-Dissolved | | 114.6 | | % | | 70-130 | 21-JUL-22 |
| | Cobalt (Co)-Dissolved | | 113.1 | | % | | 70-130 | 21-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|

MET-D-MISA-TB Effluent

Batch R5828021

WG3750818-28 MS

L2721276-2

| | | | | | | | | |
|---------------------------|--|--|-------|------|---|--|--------|-----------|
| Copper (Cu)-Dissolved | | | 113.0 | | % | | 70-130 | 21-JUL-22 |
| Iron (Fe)-Dissolved | | | 115.2 | | % | | 70-130 | 21-JUL-22 |
| Lead (Pb)-Dissolved | | | 120.4 | | % | | 70-130 | 21-JUL-22 |
| Lithium (Li)-Dissolved | | | 119.4 | | % | | 70-130 | 21-JUL-22 |
| Magnesium (Mg)-Dissolved | | | N/A | MS-B | % | | - | 21-JUL-22 |
| Manganese (Mn)-Dissolved | | | 113.5 | | % | | 70-130 | 21-JUL-22 |
| Molybdenum (Mo)-Dissolved | | | 113.3 | | % | | 70-130 | 21-JUL-22 |
| Nickel (Ni)-Dissolved | | | 111.0 | | % | | 70-130 | 21-JUL-22 |
| Phosphorus (P)-Dissolved | | | 111.6 | | % | | 70-130 | 21-JUL-22 |
| Potassium (K)-Dissolved | | | 118.3 | | % | | 70-130 | 21-JUL-22 |
| Rubidium (Rb)-Dissolved | | | 115.3 | | % | | 70-130 | 21-JUL-22 |
| Selenium (Se)-Dissolved | | | 117.4 | | % | | 70-130 | 21-JUL-22 |
| Silicon (Si)-Dissolved | | | 102.8 | | % | | 70-130 | 21-JUL-22 |
| Silver (Ag)-Dissolved | | | 117.7 | | % | | 70-130 | 21-JUL-22 |
| Sodium (Na)-Dissolved | | | 106.1 | | % | | 70-130 | 21-JUL-22 |
| Strontium (Sr)-Dissolved | | | 118.7 | | % | | 70-130 | 21-JUL-22 |
| Sulfur (S)-Dissolved | | | 107.3 | | % | | 70-130 | 21-JUL-22 |
| Tellurium (Te)-Dissolved | | | 121.7 | | % | | 70-130 | 21-JUL-22 |
| Thallium (Tl)-Dissolved | | | 116.1 | | % | | 70-130 | 21-JUL-22 |
| Thorium (Th)-Dissolved | | | 122.1 | | % | | 70-130 | 21-JUL-22 |
| Tin (Sn)-Dissolved | | | 114.0 | | % | | 70-130 | 21-JUL-22 |
| Titanium (Ti)-Dissolved | | | 107.7 | | % | | 70-130 | 21-JUL-22 |
| Tungsten (W)-Dissolved | | | 119.8 | | % | | 70-130 | 21-JUL-22 |
| Uranium (U)-Dissolved | | | 119.0 | | % | | 70-130 | 21-JUL-22 |
| Vanadium (V)-Dissolved | | | 110.1 | | % | | 70-130 | 21-JUL-22 |
| Zinc (Zn)-Dissolved | | | 121.8 | | % | | 70-130 | 21-JUL-22 |
| Zirconium (Zr)-Dissolved | | | 115.9 | | % | | 70-130 | 21-JUL-22 |

MET-T-MISA-TB Effluent

Batch R5828695

WG3749979-3 DUP

L2721276-11

| | | | | | | | | |
|---------------------|--|----------|----------|--------|------|-----|----|-----------|
| Aluminum (Al)-Total | | 0.0890 | 0.0906 | | mg/L | 1.6 | 20 | 26-JUL-22 |
| Antimony (Sb)-Total | | 0.000220 | 0.000215 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Arsenic (As)-Total | | 0.00179 | 0.00181 | | mg/L | 1.2 | 20 | 26-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|-----------|-----------|-------|-----|-------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5828695 | | | | | | | |
| WG3749979-3 | DUP | L2721276-11 | | | | | | |
| Barium (Ba)-Total | | 0.0203 | 0.0205 | | mg/L | 1.0 | 20 | 26-JUL-22 |
| Beryllium (Be)-Total | | 0.0000062 | 0.0000093 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Bismuth (Bi)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Boron (B)-Total | | 0.0140 | 0.0140 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Cadmium (Cd)-Total | | 0.000006 | 0.000004 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Calcium (Ca)-Total | | 35.9 | 36.1 | | mg/L | 0.4 | 20 | 26-JUL-22 |
| Cesium (Cs)-Total | | 0.0000080 | 0.0000090 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Chromium (Cr)-Total | | 0.00040 | 0.00046 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Cobalt (Co)-Total | | 0.000235 | 0.000250 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Copper (Cu)-Total | | 0.00172 | 0.00180 | | mg/L | 4.7 | 20 | 26-JUL-22 |
| Iron (Fe)-Total | | 0.428 | 0.434 | | mg/L | 1.4 | 20 | 26-JUL-22 |
| Lead (Pb)-Total | | 0.00008 | 0.00008 | | mg/L | 1.4 | 20 | 26-JUL-22 |
| Lithium (Li)-Total | | 0.0056 | 0.0056 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Magnesium (Mg)-Total | | 13.2 | 13.7 | | mg/L | 4.1 | 20 | 26-JUL-22 |
| Manganese (Mn)-Total | | 0.0692 | 0.0704 | | mg/L | 1.7 | 20 | 26-JUL-22 |
| Molybdenum (Mo)-Total | | 0.000745 | 0.000755 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Nickel (Ni)-Total | | 0.00198 | 0.00208 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Phosphorus (P)-Total | | 0.055 | 0.065 | | mg/L | 17 | 20 | 26-JUL-22 |
| Potassium (K)-Total | | 1.37 | 1.41 | | mg/L | 2.9 | 20 | 26-JUL-22 |
| Rubidium (Rb)-Total | | 0.00189 | 0.00198 | | mg/L | 4.7 | 20 | 26-JUL-22 |
| Selenium (Se)-Total | | 0.000215 | 0.000205 | | mg/L | 5.5 | 20 | 26-JUL-22 |
| Silicon (Si)-Total | | 2.95 | 2.99 | | mg/L | 1.4 | 20 | 26-JUL-22 |
| Silver (Ag)-Total | | <0.000001 | <0.000001 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Sodium (Na)-Total | | 6.32 | 6.47 | | mg/L | 2.3 | 20 | 26-JUL-22 |
| Strontium (Sr)-Total | | 0.0998 | 0.102 | | mg/L | 2.2 | 20 | 26-JUL-22 |
| Sulfur (S)-Total | | 7.6 | 7.6 | | mg/L | 0.5 | 20 | 26-JUL-22 |
| Tellurium (Te)-Total | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Thallium (Tl)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Thorium (Th)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Tin (Sn)-Total | | 0.00001 | 0.00002 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Titanium (Ti)-Total | | 0.00260 | 0.00269 | | mg/L | 3.4 | 20 | 26-JUL-22 |
| Tungsten (W)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Uranium (U)-Total | | 0.000553 | 0.000557 | | mg/L | | | 26-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|----------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5828695 | | | | | | | |
| WG3749979-3 | DUP | L2721276-11 | | | | | | |
| Uranium (U)-Total | | 0.000553 | 0.000557 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Vanadium (V)-Total | | 0.00115 | 0.00120 | | mg/L | 2.5 | 20 | 26-JUL-22 |
| Zinc (Zn)-Total | | 0.0015 | 0.0020 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| Zirconium (Zr)-Total | | 0.000254 | 0.000280 | RPD-NA | mg/L | N/A | 20 | 26-JUL-22 |
| WG3749979-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 102.9 | | % | | 80-120 | 26-JUL-22 |
| Antimony (Sb)-Total | | | 100.1 | | % | | 80-120 | 26-JUL-22 |
| Arsenic (As)-Total | | | 102.4 | | % | | 80-120 | 26-JUL-22 |
| Barium (Ba)-Total | | | 101.9 | | % | | 80-120 | 26-JUL-22 |
| Beryllium (Be)-Total | | | 101.0 | | % | | 80-120 | 26-JUL-22 |
| Bismuth (Bi)-Total | | | 98.2 | | % | | 80-120 | 26-JUL-22 |
| Boron (B)-Total | | | 92.7 | | % | | 80-120 | 26-JUL-22 |
| Cadmium (Cd)-Total | | | 99.9 | | % | | 80-120 | 26-JUL-22 |
| Calcium (Ca)-Total | | | 98.3 | | % | | 80-120 | 26-JUL-22 |
| Cesium (Cs)-Total | | | 99.0 | | % | | 80-120 | 26-JUL-22 |
| Chromium (Cr)-Total | | | 100.5 | | % | | 80-120 | 26-JUL-22 |
| Cobalt (Co)-Total | | | 100.1 | | % | | 80-120 | 26-JUL-22 |
| Copper (Cu)-Total | | | 98.8 | | % | | 80-120 | 26-JUL-22 |
| Iron (Fe)-Total | | | 108.0 | | % | | 80-120 | 26-JUL-22 |
| Lead (Pb)-Total | | | 98.1 | | % | | 80-120 | 26-JUL-22 |
| Lithium (Li)-Total | | | 100.7 | | % | | 80-120 | 26-JUL-22 |
| Magnesium (Mg)-Total | | | 100.3 | | % | | 80-120 | 26-JUL-22 |
| Manganese (Mn)-Total | | | 101.1 | | % | | 80-120 | 26-JUL-22 |
| Molybdenum (Mo)-Total | | | 101.9 | | % | | 80-120 | 26-JUL-22 |
| Nickel (Ni)-Total | | | 98.7 | | % | | 80-120 | 26-JUL-22 |
| Phosphorus (P)-Total | | | 110.7 | | % | | 80-120 | 26-JUL-22 |
| Potassium (K)-Total | | | 106.2 | | % | | 80-120 | 26-JUL-22 |
| Rubidium (Rb)-Total | | | 97.5 | | % | | 80-120 | 26-JUL-22 |
| Selenium (Se)-Total | | | 102.2 | | % | | 80-120 | 26-JUL-22 |
| Silicon (Si)-Total | | | 105.5 | | % | | 80-120 | 26-JUL-22 |
| Silver (Ag)-Total | | | 88.2 | | % | | 80-120 | 26-JUL-22 |
| Sodium (Na)-Total | | | 103.4 | | % | | 80-120 | 26-JUL-22 |
| Strontium (Sr)-Total | | | 98.8 | | % | | 80-120 | 26-JUL-22 |
| Sulfur (S)-Total | | | 105.3 | | | | 80-120 | |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5828695 | | | | | | | |
| WG3749979-2 | LCS | | | | | | | |
| Sulfur (S)-Total | | | 105.3 | | % | | 80-120 | 26-JUL-22 |
| Tellurium (Te)-Total | | | 99.8 | | % | | 80-120 | 26-JUL-22 |
| Thallium (Tl)-Total | | | 99.8 | | % | | 80-120 | 26-JUL-22 |
| Thorium (Th)-Total | | | 97.7 | | % | | 80-120 | 26-JUL-22 |
| Tin (Sn)-Total | | | 100.4 | | % | | 80-120 | 26-JUL-22 |
| Titanium (Ti)-Total | | | 99.5 | | % | | 80-120 | 26-JUL-22 |
| Tungsten (W)-Total | | | 98.3 | | % | | 80-120 | 26-JUL-22 |
| Uranium (U)-Total | | | 101.6 | | % | | 80-120 | 26-JUL-22 |
| Vanadium (V)-Total | | | 92.7 | | % | | 80-120 | 26-JUL-22 |
| Zinc (Zn)-Total | | | 99.9 | | % | | 80-120 | 26-JUL-22 |
| Zirconium (Zr)-Total | | | 94.2 | | % | | 80-120 | 26-JUL-22 |
| WG3749979-6 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 105.0 | | % | | 80-120 | 26-JUL-22 |
| Antimony (Sb)-Total | | | 101.5 | | % | | 80-120 | 26-JUL-22 |
| Arsenic (As)-Total | | | 105.0 | | % | | 80-120 | 26-JUL-22 |
| Barium (Ba)-Total | | | 103.7 | | % | | 80-120 | 26-JUL-22 |
| Beryllium (Be)-Total | | | 102.9 | | % | | 80-120 | 26-JUL-22 |
| Bismuth (Bi)-Total | | | 99.0 | | % | | 80-120 | 26-JUL-22 |
| Boron (B)-Total | | | 93.3 | | % | | 80-120 | 26-JUL-22 |
| Cadmium (Cd)-Total | | | 100.3 | | % | | 80-120 | 26-JUL-22 |
| Calcium (Ca)-Total | | | 102.3 | | % | | 80-120 | 26-JUL-22 |
| Cesium (Cs)-Total | | | 100.9 | | % | | 80-120 | 26-JUL-22 |
| Chromium (Cr)-Total | | | 101.7 | | % | | 80-120 | 26-JUL-22 |
| Cobalt (Co)-Total | | | 100.9 | | % | | 80-120 | 26-JUL-22 |
| Copper (Cu)-Total | | | 100.3 | | % | | 80-120 | 26-JUL-22 |
| Iron (Fe)-Total | | | 107.6 | | % | | 80-120 | 26-JUL-22 |
| Lead (Pb)-Total | | | 99.2 | | % | | 80-120 | 26-JUL-22 |
| Lithium (Li)-Total | | | 102.9 | | % | | 80-120 | 26-JUL-22 |
| Magnesium (Mg)-Total | | | 100.9 | | % | | 80-120 | 26-JUL-22 |
| Manganese (Mn)-Total | | | 101.1 | | % | | 80-120 | 26-JUL-22 |
| Molybdenum (Mo)-Total | | | 102.0 | | % | | 80-120 | 26-JUL-22 |
| Nickel (Ni)-Total | | | 101.6 | | % | | 80-120 | 26-JUL-22 |
| Phosphorus (P)-Total | | | 118.4 | | % | | 80-120 | 26-JUL-22 |
| Potassium (K)-Total | | | 108.4 | | % | | 80-120 | 26-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5828695 | | | | | | | |
| WG3749979-6 | LCS | | | | | | | |
| Rubidium (Rb)-Total | | | 99.9 | | % | | 80-120 | 26-JUL-22 |
| Selenium (Se)-Total | | | 104.6 | | % | | 80-120 | 26-JUL-22 |
| Silicon (Si)-Total | | | 108.6 | | % | | 80-120 | 26-JUL-22 |
| Silver (Ag)-Total | | | 89.4 | | % | | 80-120 | 26-JUL-22 |
| Sodium (Na)-Total | | | 104.5 | | % | | 80-120 | 26-JUL-22 |
| Strontium (Sr)-Total | | | 99.6 | | % | | 80-120 | 26-JUL-22 |
| Sulfur (S)-Total | | | 101.9 | | % | | 80-120 | 26-JUL-22 |
| Tellurium (Te)-Total | | | 105.9 | | % | | 80-120 | 26-JUL-22 |
| Thallium (Tl)-Total | | | 100.7 | | % | | 80-120 | 26-JUL-22 |
| Thorium (Th)-Total | | | 97.0 | | % | | 80-120 | 26-JUL-22 |
| Tin (Sn)-Total | | | 101.7 | | % | | 80-120 | 26-JUL-22 |
| Titanium (Ti)-Total | | | 101.7 | | % | | 80-120 | 26-JUL-22 |
| Tungsten (W)-Total | | | 102.0 | | % | | 80-120 | 26-JUL-22 |
| Uranium (U)-Total | | | 98.6 | | % | | 80-120 | 26-JUL-22 |
| Vanadium (V)-Total | | | 96.0 | | % | | 80-120 | 26-JUL-22 |
| Zinc (Zn)-Total | | | 101.7 | | % | | 80-120 | 26-JUL-22 |
| Zirconium (Zr)-Total | | | 94.2 | | % | | 80-120 | 26-JUL-22 |
| WG3749979-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | <0.0002 | | mg/L | | 0.005 | 26-JUL-22 |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 26-JUL-22 |
| Arsenic (As)-Total | | | <0.00001 | | mg/L | | 0.001 | 26-JUL-22 |
| Barium (Ba)-Total | | | <0.00001 | | mg/L | | 0.01 | 26-JUL-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 26-JUL-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 26-JUL-22 |
| Boron (B)-Total | | | 0.0020 | | mg/L | | 0.05 | 26-JUL-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 26-JUL-22 |
| Calcium (Ca)-Total | | | <0.002 | | mg/L | | 0.2 | 26-JUL-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 26-JUL-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 26-JUL-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 26-JUL-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 26-JUL-22 |
| Iron (Fe)-Total | | | <0.0005 | | mg/L | | 0.02 | 26-JUL-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 26-JUL-22 |
| Lithium (Li)-Total | | | <0.0002 | | mg/L | | 0.05 | 26-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5828695 | | | | | | | |
| WG3749979-1 | MB | | | | | | | |
| Magnesium (Mg)-Total | | | 0.0008 | | mg/L | | 0.02 | 26-JUL-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 26-JUL-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 26-JUL-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 26-JUL-22 |
| Phosphorus (P)-Total | | | <0.005 | | mg/L | | 0.05 | 26-JUL-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 26-JUL-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 26-JUL-22 |
| Selenium (Se)-Total | | | <0.000005 | | mg/L | | 0.00005 | 26-JUL-22 |
| Silicon (Si)-Total | | | 0.030 | | mg/L | | 0.1 | 26-JUL-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 26-JUL-22 |
| Sodium (Na)-Total | | | 0.045 | | mg/L | | 0.1 | 26-JUL-22 |
| Strontium (Sr)-Total | | | 0.000010 | | mg/L | | 0.001 | 26-JUL-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 26-JUL-22 |
| Tellurium (Te)-Total | | | <0.00002 | | mg/L | | 0.001 | 26-JUL-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 26-JUL-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 26-JUL-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 26-JUL-22 |
| Titanium (Ti)-Total | | | <0.00001 | | mg/L | | 0.002 | 26-JUL-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 26-JUL-22 |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.005 | 26-JUL-22 |
| Vanadium (V)-Total | | | 0.00010 | | mg/L | | 0.001 | 26-JUL-22 |
| Zinc (Zn)-Total | | | <0.0005 | | mg/L | | 0.003 | 26-JUL-22 |
| Zirconium (Zr)-Total | | | <0.000002 | | mg/L | | 0.001 | 26-JUL-22 |
| WG3749979-5 | MB | | | | | | | |
| Aluminum (Al)-Total | | | <0.0002 | | mg/L | | 0.005 | 26-JUL-22 |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 26-JUL-22 |
| Arsenic (As)-Total | | | 0.00001 | | mg/L | | 0.001 | 26-JUL-22 |
| Barium (Ba)-Total | | | <0.00001 | | mg/L | | 0.01 | 26-JUL-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 26-JUL-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 26-JUL-22 |
| Boron (B)-Total | | | 0.0020 | | mg/L | | 0.05 | 26-JUL-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 26-JUL-22 |
| Calcium (Ca)-Total | | | <0.002 | | mg/L | | 0.2 | 26-JUL-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 26-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|------------|-----------|-------|-----|---------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5828695 | | | | | | | |
| WG3749979-5 MB | | | | | | | | |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 26-JUL-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 26-JUL-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 26-JUL-22 |
| Iron (Fe)-Total | | | <0.0005 | | mg/L | | 0.02 | 26-JUL-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 26-JUL-22 |
| Lithium (Li)-Total | | | <0.0002 | | mg/L | | 0.05 | 26-JUL-22 |
| Magnesium (Mg)-Total | | | 0.0006 | | mg/L | | 0.02 | 26-JUL-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 26-JUL-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 26-JUL-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 26-JUL-22 |
| Phosphorus (P)-Total | | | <0.005 | | mg/L | | 0.05 | 26-JUL-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 26-JUL-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 26-JUL-22 |
| Selenium (Se)-Total | | | <0.000005 | | mg/L | | 0.00005 | 26-JUL-22 |
| Silicon (Si)-Total | | | 0.030 | | mg/L | | 0.1 | 26-JUL-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 26-JUL-22 |
| Sodium (Na)-Total | | | 0.020 | | mg/L | | 0.1 | 26-JUL-22 |
| Strontium (Sr)-Total | | | <0.000005 | | mg/L | | 0.001 | 26-JUL-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 26-JUL-22 |
| Tellurium (Te)-Total | | | <0.00002 | | mg/L | | 0.001 | 26-JUL-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 26-JUL-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 26-JUL-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 26-JUL-22 |
| Titanium (Ti)-Total | | | <0.00001 | | mg/L | | 0.002 | 26-JUL-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 26-JUL-22 |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.005 | 26-JUL-22 |
| Vanadium (V)-Total | | | 0.00015 | | mg/L | | 0.001 | 26-JUL-22 |
| Zinc (Zn)-Total | | | <0.0005 | | mg/L | | 0.003 | 26-JUL-22 |
| Zirconium (Zr)-Total | | | <0.000002 | | mg/L | | 0.001 | 26-JUL-22 |
| WG3749979-4 MS | | L2721276-12 | | | | | | |
| Antimony (Sb)-Total | | | 104.7 | | % | | 70-130 | 26-JUL-22 |
| Arsenic (As)-Total | | | 104.4 | | % | | 70-130 | 26-JUL-22 |
| Barium (Ba)-Total | | | 103.3 | | % | | 70-130 | 26-JUL-22 |
| Beryllium (Be)-Total | | | 105.0 | | % | | 70-130 | 26-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5828695 | | | | | | | |
| WG3749979-4 MS | | L2721276-12 | | | | | | |
| Bismuth (Bi)-Total | | | 94.0 | | % | | 70-130 | 26-JUL-22 |
| Boron (B)-Total | | | 92.6 | | % | | 70-130 | 26-JUL-22 |
| Cadmium (Cd)-Total | | | 102.1 | | % | | 70-130 | 26-JUL-22 |
| Calcium (Ca)-Total | | | N/A | MS-B | % | | - | 26-JUL-22 |
| Cesium (Cs)-Total | | | 105.5 | | % | | 70-130 | 26-JUL-22 |
| Chromium (Cr)-Total | | | 104.7 | | % | | 70-130 | 26-JUL-22 |
| Cobalt (Co)-Total | | | 101.5 | | % | | 70-130 | 26-JUL-22 |
| Copper (Cu)-Total | | | 100.2 | | % | | 70-130 | 26-JUL-22 |
| Iron (Fe)-Total | | | 100.2 | | % | | 70-130 | 26-JUL-22 |
| Lead (Pb)-Total | | | 98.8 | | % | | 70-130 | 26-JUL-22 |
| Lithium (Li)-Total | | | 110.3 | | % | | 70-130 | 26-JUL-22 |
| Magnesium (Mg)-Total | | | N/A | MS-B | % | | - | 26-JUL-22 |
| Manganese (Mn)-Total | | | N/A | MS-B | % | | - | 26-JUL-22 |
| Molybdenum (Mo)-Total | | | 101.1 | | % | | 70-130 | 26-JUL-22 |
| Nickel (Ni)-Total | | | 101.9 | | % | | 70-130 | 26-JUL-22 |
| Phosphorus (P)-Total | | | 113.3 | | % | | 70-130 | 26-JUL-22 |
| Potassium (K)-Total | | | 96.9 | | % | | 70-130 | 26-JUL-22 |
| Rubidium (Rb)-Total | | | 102.8 | | % | | 70-130 | 26-JUL-22 |
| Selenium (Se)-Total | | | 109.3 | | % | | 70-130 | 26-JUL-22 |
| Silicon (Si)-Total | | | 95.9 | | % | | 70-130 | 26-JUL-22 |
| Silver (Ag)-Total | | | 99.7 | | % | | 70-130 | 26-JUL-22 |
| Sodium (Na)-Total | | | N/A | MS-B | % | | - | 26-JUL-22 |
| Strontium (Sr)-Total | | | N/A | MS-B | % | | - | 26-JUL-22 |
| Sulfur (S)-Total | | | 99.5 | | % | | 70-130 | 26-JUL-22 |
| Tellurium (Te)-Total | | | 113.4 | | % | | 70-130 | 26-JUL-22 |
| Thallium (Tl)-Total | | | 100.3 | | % | | 70-130 | 26-JUL-22 |
| Thorium (Th)-Total | | | 102.1 | | % | | 70-130 | 26-JUL-22 |
| Tin (Sn)-Total | | | 100.8 | | % | | 70-130 | 26-JUL-22 |
| Titanium (Ti)-Total | | | 107.0 | | % | | 70-130 | 26-JUL-22 |
| Tungsten (W)-Total | | | 99.7 | | % | | 70-130 | 26-JUL-22 |
| Uranium (U)-Total | | | 99.7 | | % | | 70-130 | 26-JUL-22 |
| Vanadium (V)-Total | | | 95.8 | | % | | 70-130 | 26-JUL-22 |
| Zinc (Zn)-Total | | | 108.0 | | % | | 70-130 | 26-JUL-22 |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-------------------|--------|-----------|-------|------|---------|-----------|
| NO3-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5820796 | | | | | | | |
| WG3747870-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 102.4 | | % | | 90-110 | 11-JUL-22 |
| WG3747869-1 | MB | | | | | | | |
| Nitrate (as N) | | | 0.002 | | mg/L | | 0.02 | 11-JUL-22 |
| WG3747870-1 | MB | | | | | | | |
| Nitrate (as N) | | | 0.002 | | mg/L | | 0.02 | 11-JUL-22 |
| WG3747869-4 | MS | L2721276-8 | | | | | | |
| Nitrate (as N) | | | 100.4 | | % | | 75-125 | 11-JUL-22 |
| OGG-TOT-WT | | Effluent | | | | | | |
| Batch | R5821647 | | | | | | | |
| WG3748704-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 79.7 | | % | | 50-150 | 13-JUL-22 |
| WG3748704-1 | MB | | | | | | | |
| Oil and Grease, Total | | | 0.6 | | mg/L | | 1 | 13-JUL-22 |
| Batch | R5821718 | | | | | | | |
| WG3748724-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 104.9 | | % | | 50-150 | 13-JUL-22 |
| WG3748724-1 | MB | | | | | | | |
| Oil and Grease, Total | | | 0.6 | | mg/L | | 1 | 13-JUL-22 |
| Batch | R5822221 | | | | | | | |
| WG3748930-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 83.5 | | % | | 50-150 | 13-JUL-22 |
| WG3748930-1 | MB | | | | | | | |
| Oil and Grease, Total | | | <0.2 | | mg/L | | 1 | 13-JUL-22 |
| PH-MISA-TB | | Effluent | | | | | | |
| Batch | R5822697 | | | | | | | |
| WG3747850-3 | DUP | L2721274-3 | | | | | | |
| pH | | 8.20 | 8.21 | J | pH | 0.01 | 0.2 | 15-JUL-22 |
| WG3747850-2 | LCS | | | | | | | |
| pH | | | 7.01 | | pH | | 6.9-7.1 | 15-JUL-22 |
| SO4-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5820796 | | | | | | | |
| WG3747869-3 | DUP | L2721276-7 | | | | | | |
| Sulfate (SO4) | | 34.8 | 35.8 | | mg/L | 2.8 | 20 | 11-JUL-22 |
| WG3747869-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 103.8 | | % | | 90-110 | 11-JUL-22 |
| WG3747870-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| SO4-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5820796 | | | | | | | |
| WG3747870-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 102.7 | | % | | 90-110 | 11-JUL-22 |
| WG3747869-1 | MB | | | | | | | |
| Sulfate (SO4) | | | 0.10 | | mg/L | | 0.3 | 11-JUL-22 |
| WG3747870-1 | MB | | | | | | | |
| Sulfate (SO4) | | | 0.05 | | mg/L | | 0.3 | 11-JUL-22 |
| WG3747869-4 | MS | L2721276-8 | | | | | | |
| Sulfate (SO4) | | | 99.0 | | % | | 75-125 | 11-JUL-22 |
| TDS-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5820266 | | | | | | | |
| WG3747837-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 98.7 | | % | | 85-115 | 10-JUL-22 |
| WG3747837-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <2 | | mg/L | | 10 | 10-JUL-22 |
| TSS-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5820203 | | | | | | | |
| WG3747838-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 101.3 | | % | | 85-115 | 10-JUL-22 |
| WG3747838-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 10-JUL-22 |

Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

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Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Colour, True | 1 | 05-JUL-22 09:25 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 2 | 05-JUL-22 09:40 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 3 | 05-JUL-22 09:55 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 4 | 05-JUL-22 10:25 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 5 | 05-JUL-22 10:50 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 6 | 05-JUL-22 11:00 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 7 | 05-JUL-22 11:20 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 8 | 05-JUL-22 12:00 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 9 | 05-JUL-22 12:00 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 10 | 05-JUL-22 12:30 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 11 | 05-JUL-22 13:15 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 12 | 05-JUL-22 14:00 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 13 | 05-JUL-22 14:25 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 14 | 05-JUL-22 12:00 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| | 15 | 05-JUL-22 12:00 | 10-JUL-22 11:00 | 3 | 5 | days | EHTR |
| Conductivity (EC) | 1 | 05-JUL-22 09:25 | 10-JUL-22 11:00 | 4 | 5 | days | EHTR |
| | 2 | 05-JUL-22 09:40 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 3 | 05-JUL-22 09:55 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 4 | 05-JUL-22 10:25 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 5 | 05-JUL-22 10:50 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 6 | 05-JUL-22 11:00 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 7 | 05-JUL-22 11:20 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 8 | 05-JUL-22 12:00 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 9 | 05-JUL-22 12:00 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 10 | 05-JUL-22 12:30 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 11 | 05-JUL-22 13:15 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 12 | 05-JUL-22 14:00 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 13 | 05-JUL-22 14:25 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 14 | 05-JUL-22 12:00 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 15 | 05-JUL-22 12:00 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| Turbidity | 1 | 05-JUL-22 09:25 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 2 | 05-JUL-22 09:40 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 3 | 05-JUL-22 09:55 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 4 | 05-JUL-22 10:25 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 5 | 05-JUL-22 10:50 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 6 | 05-JUL-22 11:00 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 7 | 05-JUL-22 11:20 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 8 | 05-JUL-22 12:00 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 9 | 05-JUL-22 12:00 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 10 | 05-JUL-22 12:30 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 11 | 05-JUL-22 13:15 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 12 | 05-JUL-22 14:00 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 13 | 05-JUL-22 14:25 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 14 | 05-JUL-22 12:00 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| | 15 | 05-JUL-22 12:00 | 11-JUL-22 16:00 | 3 | 6 | days | EHTR |
| pH | 1 | 05-JUL-22 09:25 | 10-JUL-22 11:00 | 4 | 5 | days | EHTR |
| | 2 | 05-JUL-22 09:40 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 3 | 05-JUL-22 09:55 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 4 | 05-JUL-22 10:25 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |

Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|---|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| pH | | | | | | | |
| | 5 | 05-JUL-22 10:50 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 6 | 05-JUL-22 11:00 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 7 | 05-JUL-22 11:20 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 8 | 05-JUL-22 12:00 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 9 | 05-JUL-22 12:00 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 10 | 05-JUL-22 12:30 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 11 | 05-JUL-22 13:15 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 12 | 05-JUL-22 14:00 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 13 | 05-JUL-22 14:25 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 14 | 05-JUL-22 12:00 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| | 15 | 05-JUL-22 12:00 | 10-JUL-22 11:00 | 4 | 5 | days | EHTL |
| Leachable Anions & Nutrients | | | | | | | |
| Nitrate in Water by IC | | | | | | | |
| | 5 | 05-JUL-22 10:50 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 6 | 05-JUL-22 11:00 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 7 | 05-JUL-22 11:20 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 8 | 05-JUL-22 12:00 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 9 | 05-JUL-22 12:00 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 10 | 05-JUL-22 12:30 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 11 | 05-JUL-22 13:15 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 12 | 05-JUL-22 14:00 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 13 | 05-JUL-22 14:25 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 14 | 05-JUL-22 12:00 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 15 | 05-JUL-22 12:00 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| Nitrite in Water by IC | | | | | | | |
| | 5 | 05-JUL-22 10:50 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 6 | 05-JUL-22 11:00 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 7 | 05-JUL-22 11:20 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 8 | 05-JUL-22 12:00 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 9 | 05-JUL-22 12:00 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 10 | 05-JUL-22 12:30 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 11 | 05-JUL-22 13:15 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 12 | 05-JUL-22 14:00 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 13 | 05-JUL-22 14:25 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 14 | 05-JUL-22 12:00 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| | 15 | 05-JUL-22 12:00 | 11-JUL-22 12:23 | 5 | 6 | days | EHT |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | | | | | | | |
| | 1 | 05-JUL-22 09:25 | 22-JUL-22 16:53 | 14 | 17 | days | EHT |
| | 2 | 05-JUL-22 09:40 | 22-JUL-22 16:53 | 14 | 17 | days | EHT |
| Ammonia by Discrete Analyzer | | | | | | | |
| | 15 | 05-JUL-22 12:00 | 20-JUL-22 09:30 | 14 | 15 | days | EHT |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | | | | | | | |
| | 3 | 05-JUL-22 09:55 | 04-AUG-22 00:00 | 14 | 30 | days | EHT |
| | 4 | 05-JUL-22 10:25 | 04-AUG-22 00:00 | 14 | 30 | days | EHT |
| | 5 | 05-JUL-22 10:50 | 04-AUG-22 00:00 | 14 | 30 | days | EHT |
| | 6 | 05-JUL-22 11:00 | 04-AUG-22 00:00 | 14 | 30 | days | EHT |
| | 7 | 05-JUL-22 11:20 | 04-AUG-22 00:00 | 14 | 30 | days | EHT |
| | 8 | 05-JUL-22 12:00 | 04-AUG-22 00:00 | 14 | 30 | days | EHT |

Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

Page 29 of 29

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|---------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | | | | | | | |
| | 9 | 05-JUL-22 12:00 | 04-AUG-22 00:00 | 14 | 30 | days | EHT |
| | 10 | 05-JUL-22 12:30 | 04-AUG-22 00:00 | 14 | 29 | days | EHT |
| | 11 | 05-JUL-22 13:15 | 04-AUG-22 00:00 | 14 | 29 | days | EHT |
| | 12 | 05-JUL-22 14:00 | 04-AUG-22 00:00 | 14 | 29 | days | EHT |
| | 13 | 05-JUL-22 14:25 | 04-AUG-22 00:00 | 14 | 29 | days | EHT |
| | 14 | 05-JUL-22 12:00 | 04-AUG-22 00:00 | 14 | 30 | days | EHT |
| | 15 | 05-JUL-22 12:00 | 04-AUG-22 00:00 | 14 | 30 | days | EHT |
| Metals | | | | | | | |
| Dissolved Orthophosphate | | | | | | | |
| | 14 | 05-JUL-22 12:00 | 13-JUL-22 13:00 | 7 | 8 | days | EHT |
| | 15 | 05-JUL-22 12:00 | 13-JUL-22 13:00 | 7 | 8 | days | EHT |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand (BOD) | | | | | | | |
| | 1 | 05-JUL-22 09:25 | 10-JUL-22 14:11 | 4 | 5 | days | EHTR |
| | 2 | 05-JUL-22 09:40 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |
| | 3 | 05-JUL-22 09:55 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |
| | 4 | 05-JUL-22 10:25 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |
| | 5 | 05-JUL-22 10:50 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |
| | 6 | 05-JUL-22 11:00 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |
| | 7 | 05-JUL-22 11:20 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |
| | 8 | 05-JUL-22 12:00 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |
| | 9 | 05-JUL-22 12:00 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |
| | 10 | 05-JUL-22 12:30 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |
| | 11 | 05-JUL-22 13:15 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |
| | 12 | 05-JUL-22 14:00 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |
| | 13 | 05-JUL-22 14:25 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |
| | 14 | 05-JUL-22 12:00 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |
| | 15 | 05-JUL-22 12:00 | 10-JUL-22 14:11 | 4 | 5 | days | EHTL |

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2721276 were received on 09-JUL-22 09:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



LV



L2721276-COFC

L2721276

CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

COC No: ALS-447495601

Cooler No. of

| | | | | | | | | | | | | | | | | | | | | |
|---|--|----------|----------|----------|------------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Site ID Rainy River | Turnaround Time 10 Business Days | Filtered | Preserve | Analysis | NG-SW-P-TB | RA226-MMER-8E | | | | | | | | | | | | | | |
| Site Address 1361 Roen Rd, Chappale, ON | Lab Name ALS Thunder Bay | | | | | | | | | | | | | | | | | | | |
| Project Number | Lab PM Christine Paradis | | | | | | | | | | | | | | | | | | | |
| Project Name Rainy River Mine | Lab Phone/Fax | | | | | | | | | | | | | | | | | | | |
| Project Manager Amanda Jacobs | Shipping Company | | | | | | | | | | | | | | | | | | | |
| Project Manager Email Address amanda.jacobs@newgold.com | Airbill No. | | | | | | | | | | | | | | | | | | | |
| Sampler | Shipping Date 07/07/2022 | | | | | | | | | | | | | | | | | | | |

| Items No. | Sample ID | Sample Location | Matrix | G-Grab C-Comp | Depth | Sample Date Time | # of Containers | Comments Lab I.D. | Filtered | Preserve | Analysis | NG-SW-P-TB | RA226-MMER-8E |
|-----------|-----------|-------------------|-------------------|------------------|-------|------------------|-----------------|-------------------|----------|----------|----------|------------|---------------|
| -1 | 1 | SW20_SW_20220705 | Surface Water 20 | SW | G | 07/05/2022 09:25 | 12 | pH=6.63. | X | X | | | |
| -2 | 2 | SW16_SW_20220705 | Surface Water 16 | SW | G | 07/05/2022 09:40 | 11 | . | X | | | | |
| -3 | 3 | SW10_SW_20220705 | Surface Water 10 | SW | G | 07/05/2022 09:55 | 11 | . | X | | | | |
| -4 | 4 | SW28A_SW_20220705 | Surface Water 28A | SW | G | 07/05/2022 10:25 | 11 | pH=7.96. | X | | | | |
| -5 | 5 | SW17_SW_20220705 | Surface Water 17 | SW | G | 07/05/2022 10:50 | 11 | . | X | | | | |
| -6 | 6 | SW02_SW_20220705 | Surface Water 02 | SW | G | 07/05/2022 11:00 | 11 | . | X | | | | |
| -7 | 7 | SW15_SW_20220705 | Surface Water 15 | SW | G | 07/05/2022 11:20 | 11 | . | X | | | | |
| -8 | 8 | SW23_SW_20220705 | Surface Water | SW | G | 07/05/2022 12:00 | 12 | . | X | X | | | |

| | | | | |
|--|--------------------------------------|------------------|-----------------------------------|------------------|
| Additional Comments/Special Instructions: | RELINQUISHED BY / AFFILIATION | Date Time | ACCEPTED BY / AFFILIATION | Date Time |
| | | | AJ 07/09/22 9:30 8.2°C | |
| SHIPPING METHOD: (mark as appropriate) | | | SAMPLER NAME AND SIGNATURE | Date Time |
| Email Report To : | rainyriver.labresults@newgold.com | | | |
| Email Invoice To : | rainyriver.accounts1@newgold.com | | | |

07



L2721276-COFC

L2721276



CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

COC No: ALS-447495601

Cooler No. of

| | | | | | |
|---|--|--|--|----------|---|
| Site ID Rainy River | | Turnaround Time 10 Business Days | | Filtered | |
| Site Address 1361 Roen Rd, Chapple, ON | | Lab Name ALS Thunder Bay | | | Preserve |
| Project Number | | Lab PM Christine Paradis | | | |
| Project Name Rainy River Mine | | Lab Phone/Fax | | | Analysis NG-SW-P-TB RA226-MMER-BE |
| Project Manager Amanda Jacobs | | Shipping Company | | | |
| Project Manager Email Address amanda.jacobs@newgold.com | | Airbill No. | | | |
| Sampler | | Shipping Date 07/07/2022 | | | |

-9
-10
-11
-12
-13
-14
-15

| Items No. | Sample ID | Sample Location | Matrix | G-Grab G-Comp | Depth | Sample Date Time | # of Containers | Comments Lab I.D. | Filtered | Preserve | Analysis |
|-----------|------------------|---------------------|--------|------------------|-------|------------------|-----------------|-------------------|----------|----------|----------|
| 8 | SW06_SW_20220705 | 903 | SW | G | | 07/05/2022 12:00 | 11 | | X | | |
| 10 | SW24_SW_20220705 | Surface Water 24 | SW | G | | 07/05/2022 12:30 | 12 | | X | X | |
| 11 | SW03_SW_20220705 | Surface Water 03 | SW | G | | 07/05/2022 13:15 | 11 | pH=7.26. | X | | |
| 12 | SW25_SW_20220705 | Surface Water 25 | SW | G | | 07/05/2022 14:00 | 11 | | X | | |
| 13 | SW26_SW_20220705 | Surface Water 26 | SW | G | | 07/05/2022 14:25 | 11 | pH=7.76. | X | | |
| 14 | FB_SW_20220705 | Field Blank | SW | G | | 07/06/2022 12:00 | 11 | | X | | |
| 15 | TB_SW_20220705 | Travel Blank | SW | G | | 07/07/2022 12:00 | 11 | | X | | |

| | | | | |
|--|---|------------------|-----------------------------------|------------------|
| Additional Comments/Special Instructions: | RELINQUISHED BY / AFFILIATION | Date Time | ACCEPTED BY / AFFILIATION | Date Time |
| | | | AJ 07/09/22 9:30 8:22 | |
| | | | | |
| | SHIPPING METHOD: (mark as appropriate) | | SAMPLER NAME AND SIGNATURE | Date Time |
| Email Report To : rainyriver.labresults@newgold.com | | | | |
| Email Invoice To : rainyriver.accounts1@newgold.com | | | | |

AJ



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 12-AUG-22
Report Date: 14-SEP-22 18:22 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2728012
Project P.O. #: 4500062842
Job Reference:
C of C Numbers:
Legal Site Desc:

<original signed by>

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2728012-1 SW20_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 08:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 18.93 | | 0.10 | pH | | 17-AUG-22 | R5844680 |
| Temperature, Client Supplied | 6.82 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 221 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 257 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 125 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.49 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 14.0 | | 3.0 | mg/L | | 17-AUG-22 | R5845284 |
| Total Dissolved Solids | 208 | | 20 | mg/L | | 17-AUG-22 | R5845125 |
| Turbidity | 9.05 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.0 | <DL | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 122 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.028 | <T | 0.025 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | 0.028 | <T | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 11.1 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | 0.049 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 2.19 | | 0.050 | mg/L | 18-AUG-22 | 23-AUG-22 | R5848503 |
| Orthophosphate-Dissolved (as P) | 0.0239 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 0.55 | <T | 0.30 | mg/L | | 17-AUG-22 | R5844808 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0014 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | 0.0008 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 37.0 | | 0.50 | mg/L | 09-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 38.5 | | 0.50 | mg/L | | 18-AUG-22 | R5845801 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.397 | | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Antimony (Sb)-Total | 0.000055 | <DL | 0.00060 | mg/L | | 22-AUG-22 | R5848117 |
| Arsenic (As)-Total | 0.00222 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Barium (Ba)-Total | 0.0201 | | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Beryllium (Be)-Total | 0.0000339 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Boron (B)-Total | 0.0060 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Cadmium (Cd)-Total | 0.000009 | <DL | 0.000017 | mg/L | | 22-AUG-22 | R5848117 |
| Calcium (Ca)-Total | 31.7 | | 0.20 | mg/L | | 22-AUG-22 | R5848117 |
| Cesium (Cs)-Total | 0.0000545 | | 0.000010 | mg/L | | 22-AUG-22 | R5848117 |
| Chromium (Cr)-Total | 0.00252 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Cobalt (Co)-Total | 0.000700 | <T | 0.00050 | mg/L | | 22-AUG-22 | R5848117 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-1 SW20_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 08:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Copper (Cu)-Total | 0.00088 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Iron (Fe)-Total | 1.23 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Lead (Pb)-Total | 0.00032 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Lithium (Li)-Total | 0.0042 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Magnesium (Mg)-Total | 13.5 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Manganese (Mn)-Total | 0.252 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844686 |
| Molybdenum (Mo)-Total | 0.000350 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Nickel (Ni)-Total | 0.00298 | <T | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Phosphorus (P)-Total | 0.070 | | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Potassium (K)-Total | 1.09 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Rubidium (Rb)-Total | 0.00234 | | 0.00020 | mg/L | | 22-AUG-22 | R5848117 |
| Selenium (Se)-Total | 0.000275 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Silicon (Si)-Total | 7.16 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Sodium (Na)-Total | 7.09 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Strontium (Sr)-Total | 0.0819 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-AUG-22 | R5848117 |
| Thorium (Th)-Total | 0.00007 | <DL | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Titanium (Ti)-Total | 0.00979 | | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Uranium (U)-Total | 0.000274 | <DL | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Vanadium (V)-Total | 0.00150 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Zinc (Zn)-Total | 0.0045 | <T | 0.0030 | mg/L | | 22-AUG-22 | R5848117 |
| Zirconium (Zr)-Total | 0.000646 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0216 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000080 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00201 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0167 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000028 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | 0.000014 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | 0.0060 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 29.6 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00027 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-1 SW20_SW_20220809 Sampled By: Client on 09-AUG-22 @ 08:40 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Cobalt (Co)-Dissolved | 0.000486 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00050 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.668 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00014 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0044 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 12.5 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.215 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845315 |
| Molybdenum (Mo)-Dissolved | 0.000302 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00178 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.050 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 0.94 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00142 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000245 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 6.07 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 6.72 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0769 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 0.6 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | 0.000010 | <DL | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00005 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00108 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.000247 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00074 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0026 | <DL | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000502 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 13-AUG-22 | R5845059 |
| Chemical Oxygen Demand | 114 | | 10 | mg/L | 13-AUG-22 | 19-AUG-22 | R5846198 |
| Oil and Grease, Total | <0.2 | <W | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-2 SW20_SW_20220809 Sampled By: Client on 09-AUG-22 @ 08:40 Matrix: SW | | | | | | | |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.010 | | 0.010 | Bq/L | | 08-SEP-22 | R5857700 |
| L2728012-3 SW10_SW_20220809 Sampled By: Client on 09-AUG-22 @ 09:05 Matrix: SW | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2728012-3 SW10_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 09:05 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.83 | | 0.10 | pH | | 17-AUG-22 | R5844680 |
| Temperature, Client Supplied | 19.65 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 227 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 241 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 124 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.73 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 17-AUG-22 | R5845284 |
| Total Dissolved Solids | 196 | | 20 | mg/L | | 17-AUG-22 | R5845125 |
| Turbidity | 3.15 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 120 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.012 | <DL | 0.025 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 7.38 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | 0.055 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.006 | <DL | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 1.53 | | 0.050 | mg/L | 18-AUG-22 | 23-AUG-22 | R5848503 |
| Orthophosphate-Dissolved (as P) | 0.0338 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 0.75 | <T | 0.30 | mg/L | | 17-AUG-22 | R5844808 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | 0.0004 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 37.6 | | 0.50 | mg/L | 09-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 41.5 | | 0.50 | mg/L | | 18-AUG-22 | R5845801 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.114 | | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Antimony (Sb)-Total | 0.000055 | <DL | 0.00060 | mg/L | | 22-AUG-22 | R5848117 |
| Arsenic (As)-Total | 0.00193 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Barium (Ba)-Total | 0.0157 | | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Beryllium (Be)-Total | 0.0000196 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Boron (B)-Total | 0.0080 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Cadmium (Cd)-Total | 0.000004 | <DL | 0.000017 | mg/L | | 22-AUG-22 | R5848117 |
| Calcium (Ca)-Total | 31.3 | | 0.20 | mg/L | | 22-AUG-22 | R5848117 |
| Cesium (Cs)-Total | 0.0000100 | | 0.000010 | mg/L | | 22-AUG-22 | R5848117 |
| Chromium (Cr)-Total | 0.00050 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Cobalt (Co)-Total | 0.000280 | <DL | 0.00050 | mg/L | | 22-AUG-22 | R5848117 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-3 SW10_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 09:05 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Copper (Cu)-Total | 0.00080 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Iron (Fe)-Total | 0.699 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Lead (Pb)-Total | 0.00014 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Lithium (Li)-Total | 0.0044 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Magnesium (Mg)-Total | 13.5 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Manganese (Mn)-Total | 0.0566 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844686 |
| Molybdenum (Mo)-Total | 0.000410 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Nickel (Ni)-Total | 0.00204 | <T | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Phosphorus (P)-Total | 0.065 | | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Potassium (K)-Total | 0.92 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Rubidium (Rb)-Total | 0.00150 | | 0.00020 | mg/L | | 22-AUG-22 | R5848117 |
| Selenium (Se)-Total | 0.000255 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Silicon (Si)-Total | 4.80 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Sodium (Na)-Total | 5.25 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Strontium (Sr)-Total | 0.0817 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-AUG-22 | R5848117 |
| Thorium (Th)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Titanium (Ti)-Total | 0.00325 | | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Uranium (U)-Total | 0.000333 | <DL | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Vanadium (V)-Total | 0.00095 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Zinc (Zn)-Total | 0.0020 | <DL | 0.0030 | mg/L | | 22-AUG-22 | R5848117 |
| Zirconium (Zr)-Total | 0.000496 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0176 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000060 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00185 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0144 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000026 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | 0.0060 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | 0.0000030 | <DL | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 29.4 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00025 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|----------|-----------|-----------|----------|
| L2728012-3 SW10_SW_20220809 Sampled By: Client on 09-AUG-22 @ 09:05 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Cobalt (Co)-Dissolved | 0.000216 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00068 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.518 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00008 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0046 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 12.4 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.0459 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845315 |
| Molybdenum (Mo)-Dissolved | 0.000350 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00186 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.055 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 0.82 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00118 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000205 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 4.35 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 4.83 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0792 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 0.8 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00005 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | 0.000040 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00098 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.000314 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00086 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0014 | <DL | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000498 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 13-AUG-22 | R5845059 |
| Chemical Oxygen Demand | 110 | | 10 | mg/L | 13-AUG-22 | 19-AUG-22 | R5846198 |
| Oil and Grease, Total | 1.0 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-4 SW16_SW_20220809 Sampled By: Client on 09-AUG-22 @ 09:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.12 | | 0.10 | pH | | 17-AUG-22 | R5844680 |
| Temperature, Client Supplied | 20.9 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 44.4 | | 2.0 | CU | | 16-AUG-22 | R5843417 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2728012-4 SW16_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 09:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Conductivity (EC) | 65.8 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 26.6 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.55 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 6.5 | | 3.0 | mg/L | | 17-AUG-22 | R5845284 |
| Total Dissolved Solids | 56 | | 13 | mg/L | | 17-AUG-22 | R5845125 |
| Turbidity | 2.21 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.2 | <DL | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 27.8 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 2.07 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | 0.041 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.010 | <DL | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 0.522 | | 0.050 | mg/L | 18-AUG-22 | 23-AUG-22 | R5848503 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 3.10 | <T | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 13.2 | | 0.50 | mg/L | 09-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 12.8 | | 0.50 | mg/L | | 18-AUG-22 | R5845801 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.167 | | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Antimony (Sb)-Total | 0.000035 | <DL | 0.00060 | mg/L | | 22-AUG-22 | R5848117 |
| Arsenic (As)-Total | 0.00053 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Barium (Ba)-Total | 0.0108 | | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Beryllium (Be)-Total | 0.0000031 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Cadmium (Cd)-Total | 0.000005 | <DL | 0.000017 | mg/L | | 22-AUG-22 | R5848117 |
| Calcium (Ca)-Total | 7.75 | | 0.20 | mg/L | | 22-AUG-22 | R5848117 |
| Cesium (Cs)-Total | 0.0000235 | | 0.000010 | mg/L | | 22-AUG-22 | R5848117 |
| Chromium (Cr)-Total | 0.00056 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Cobalt (Co)-Total | 0.000130 | <DL | 0.00050 | mg/L | | 22-AUG-22 | R5848117 |
| Copper (Cu)-Total | 0.00102 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Iron (Fe)-Total | 0.265 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Lead (Pb)-Total | 0.00012 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Lithium (Li)-Total | 0.0014 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-4 SW16_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 09:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Magnesium (Mg)-Total | 2.62 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Manganese (Mn)-Total | 0.0224 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844686 |
| Molybdenum (Mo)-Total | 0.000125 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Nickel (Ni)-Total | 0.00084 | <DL | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Potassium (K)-Total | 0.88 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Rubidium (Rb)-Total | 0.00215 | | 0.00020 | mg/L | | 22-AUG-22 | R5848117 |
| Selenium (Se)-Total | 0.000105 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Silicon (Si)-Total | 1.78 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Sodium (Na)-Total | 2.68 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Strontium (Sr)-Total | 0.0231 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Sulfur (S)-Total | 0.8 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-AUG-22 | R5848117 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Titanium (Ti)-Total | 0.00450 | | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Uranium (U)-Total | 0.0000845 | <DL | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Vanadium (V)-Total | 0.00060 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 22-AUG-22 | R5848117 |
| Zirconium (Zr)-Total | 0.000210 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0236 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.000455 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.00886 | <DL | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | <0.0005 | <W | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 6.91 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | 0.000032 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00082 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.0760 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|----------|-----------|-----------|----------|
| L2728012-4 SW16_SW_20220809 Sampled By: Client on 09-AUG-22 @ 09:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lithium (Li)-Dissolved | 0.0012 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 2.28 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.00476 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845315 |
| Molybdenum (Mo)-Dissolved | 0.000114 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00062 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 0.74 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00179 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000105 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 1.42 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 2.50 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0211 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 1.2 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00070 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.0000710 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00032 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0006 | <DL | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000130 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 13-AUG-22 | R5845059 |
| Chemical Oxygen Demand | 46 | | 10 | mg/L | 13-AUG-22 | 19-AUG-22 | R5846198 |
| Oil and Grease, Total | 1.0 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-5 SW28_SW_20220809 Sampled By: Client on 09-AUG-22 @ 09:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.31 | | 0.10 | pH | | 17-AUG-22 | R5844680 |
| Temperature, Client Supplied | 19.06 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 227 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 163 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 93.7 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.77 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 25.5 | | 3.0 | mg/L | | 17-AUG-22 | R5845284 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-5 SW28_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 09:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Total Dissolved Solids | 156 | | 13 | mg/L | | 17-AUG-22 | R5845125 |
| Turbidity | 14.2 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 86.4 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.024 | <T | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 0.92 | | 0.10 | mg/L | 14-AUG-22 | 17-AUG-22 | R5844808 |
| Fluoride (F) | 0.049 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.026 | <T | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 1.52 | | 0.050 | mg/L | 18-AUG-22 | 23-AUG-22 | R5848503 |
| Orthophosphate-Dissolved (as P) | 0.0029 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 0.25 | <DL | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 35.6 | | 0.50 | mg/L | 09-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 40.0 | | 0.50 | mg/L | | 18-AUG-22 | R5845801 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.606 | | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00060 | mg/L | | 22-AUG-22 | R5848117 |
| Arsenic (As)-Total | 0.00193 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Barium (Ba)-Total | 0.0175 | | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Beryllium (Be)-Total | 0.0000330 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Boron (B)-Total | 0.0050 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Cadmium (Cd)-Total | 0.000007 | <DL | 0.000017 | mg/L | | 22-AUG-22 | R5848117 |
| Calcium (Ca)-Total | 23.5 | | 0.20 | mg/L | | 22-AUG-22 | R5848117 |
| Cesium (Cs)-Total | 0.000105 | | 0.000010 | mg/L | | 22-AUG-22 | R5848117 |
| Chromium (Cr)-Total | 0.00152 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Cobalt (Co)-Total | 0.000540 | <T | 0.00050 | mg/L | | 22-AUG-22 | R5848117 |
| Copper (Cu)-Total | 0.00094 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Iron (Fe)-Total | 1.15 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Lead (Pb)-Total | 0.00037 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Lithium (Li)-Total | 0.0038 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Magnesium (Mg)-Total | 10.9 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Manganese (Mn)-Total | 0.102 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844686 |
| Molybdenum (Mo)-Total | 0.000330 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-5 SW28_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 09:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Nickel (Ni)-Total | 0.00192 | <DL | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Potassium (K)-Total | 0.59 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Rubidium (Rb)-Total | 0.00312 | | 0.00020 | mg/L | | 22-AUG-22 | R5848117 |
| Selenium (Se)-Total | 0.000210 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Silicon (Si)-Total | 5.23 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Sodium (Na)-Total | 1.07 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Strontium (Sr)-Total | 0.0565 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 22-AUG-22 | R5848117 |
| Thorium (Th)-Total | 0.00007 | <DL | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Tin (Sn)-Total | 0.00023 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Titanium (Ti)-Total | 0.0147 | | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Uranium (U)-Total | 0.000246 | <DL | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Vanadium (V)-Total | 0.00220 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Zinc (Zn)-Total | 0.0045 | <T | 0.0030 | mg/L | | 22-AUG-22 | R5848117 |
| Zirconium (Zr)-Total | 0.000588 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0152 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000035 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00158 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0117 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | 0.0020 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | 0.0000030 | <DL | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 21.1 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00017 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | 0.000136 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00036 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.368 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0032 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 9.96 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.0329 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845315 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|----------|-----------|-----------|----------|
| L2728012-5 SW28_SW_20220809 Sampled By: Client on 09-AUG-22 @ 09:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Molybdenum (Mo)-Dissolved | 0.000240 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00118 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 0.40 | <DL | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.000976 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000205 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 3.68 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 0.975 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0513 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 0.4 | <DL | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | 0.000060 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00052 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.000191 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00066 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0010 | <DL | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000222 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 13-AUG-22 | R5845059 |
| Chemical Oxygen Demand | 116 | | 10 | mg/L | 13-AUG-22 | 19-AUG-22 | R5846198 |
| Oil and Grease, Total | 1.0 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-6 SW02_SW_20220809 Sampled By: Client on 09-AUG-22 @ 10:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.71 | | 0.10 | pH | | 17-AUG-22 | R5844680 |
| Temperature, Client Supplied | 17.93 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 269 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 142 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 84.2 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.18 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 2.0 | <DL | 3.0 | mg/L | | 17-AUG-22 | R5845284 |
| Total Dissolved Solids | 152 | | 13 | mg/L | | 17-AUG-22 | R5845125 |
| Turbidity | 1.02 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.0 | <DL | 2.0 | mg/L | | 15-AUG-22 | R5843276 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-6 SW02_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 10:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 76.0 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.018 | <T | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 0.17 | | 0.10 | mg/L | 17-AUG-22 | 17-AUG-22 | R5844808 |
| Fluoride (F) | 0.036 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 1.27 | | 0.050 | mg/L | 18-AUG-22 | 23-AUG-22 | R5848503 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0010 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0014 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 39.2 | | 0.50 | mg/L | 09-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 43.1 | | 0.50 | mg/L | | 18-AUG-22 | R5845801 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0478 | | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Antimony (Sb)-Total | 0.000025 | <DL | 0.00060 | mg/L | | 22-AUG-22 | R5848117 |
| Arsenic (As)-Total | 0.00226 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Barium (Ba)-Total | 0.0170 | | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Beryllium (Be)-Total | 0.0000021 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Cadmium (Cd)-Total | 0.000001 | <DL | 0.000017 | mg/L | | 22-AUG-22 | R5848117 |
| Calcium (Ca)-Total | 21.1 | | 0.20 | mg/L | | 22-AUG-22 | R5848117 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 22-AUG-22 | R5848117 |
| Chromium (Cr)-Total | 0.00034 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Cobalt (Co)-Total | 0.000880 | <T | 0.00050 | mg/L | | 22-AUG-22 | R5848117 |
| Copper (Cu)-Total | 0.00022 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Iron (Fe)-Total | 1.20 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Lead (Pb)-Total | 0.00024 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Lithium (Li)-Total | 0.0014 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Magnesium (Mg)-Total | 8.53 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Manganese (Mn)-Total | 0.560 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844686 |
| Molybdenum (Mo)-Total | 0.000105 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Nickel (Ni)-Total | 0.00104 | <DL | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Potassium (K)-Total | 0.56 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Rubidium (Rb)-Total | 0.00165 | | 0.00020 | mg/L | | 22-AUG-22 | R5848117 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-6 SW02_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 10:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Selenium (Se)-Total | 0.000180 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Silicon (Si)-Total | 6.23 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Sodium (Na)-Total | 0.750 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Strontium (Sr)-Total | 0.0392 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-AUG-22 | R5848117 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Titanium (Ti)-Total | 0.00083 | <DL | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Uranium (U)-Total | 0.0000225 | <DL | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Vanadium (V)-Total | 0.00025 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Zinc (Zn)-Total | 0.0025 | <DL | 0.0030 | mg/L | | 22-AUG-22 | R5848117 |
| Zirconium (Zr)-Total | 0.000128 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0342 | | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000035 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00213 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0159 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | <0.0005 | <W | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 20.5 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | 0.000786 | <T | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.957 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00014 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0016 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 8.04 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.496 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845315 |
| Molybdenum (Mo)-Dissolved | 0.000086 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00062 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.005 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 0.53 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|----------|-----------|-----------|----------|
| L2728012-6 SW02_SW_20220809 Sampled By: Client on 09-AUG-22 @ 10:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Rubidium (Rb)-Dissolved | 0.00155 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000170 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 5.91 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 0.710 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0384 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | 0.000004 | <DL | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00001 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | 0.000015 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00064 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.0000200 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00026 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0040 | <T | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000140 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | 117 | | 10 | mg/L | 13-AUG-22 | 19-AUG-22 | R5846198 |
| Oil and Grease, Total | 0.6 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-7 SW17_SW_20220809 Sampled By: Client on 09-AUG-22 @ 10:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.12 | | 0.10 | pH | | 17-AUG-22 | R5844680 |
| Temperature, Client Supplied | 21.29 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 61.7 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 81.6 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 35.6 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.62 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 16.5 | | 3.0 | mg/L | | 17-AUG-22 | R5845284 |
| Total Dissolved Solids | 62 | | 13 | mg/L | | 17-AUG-22 | R5845125 |
| Turbidity | 9.19 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 34.6 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.004 | <DL | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 2.18 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-7 SW17_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 10:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Fluoride (F) | 0.046 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.006 | <DL | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 0.607 | | 0.050 | mg/L | 18-AUG-22 | 23-AUG-22 | R5848503 |
| Orthophosphate-Dissolved (as P) | 0.0015 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 3.85 | <T | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0002 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 14.9 | | 0.50 | mg/L | 09-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 12.1 | | 0.50 | mg/L | | 19-AUG-22 | R5846982 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.364 | | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Antimony (Sb)-Total | 0.000055 | <DL | 0.00060 | mg/L | | 22-AUG-22 | R5848117 |
| Arsenic (As)-Total | 0.00072 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Barium (Ba)-Total | 0.0136 | | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Beryllium (Be)-Total | 0.0000052 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Cadmium (Cd)-Total | 0.000008 | <DL | 0.000017 | mg/L | | 22-AUG-22 | R5848117 |
| Calcium (Ca)-Total | 10.1 | | 0.20 | mg/L | | 22-AUG-22 | R5848117 |
| Cesium (Cs)-Total | 0.0000580 | | 0.000010 | mg/L | | 22-AUG-22 | R5848117 |
| Chromium (Cr)-Total | 0.00102 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Cobalt (Co)-Total | 0.000305 | <DL | 0.00050 | mg/L | | 22-AUG-22 | R5848117 |
| Copper (Cu)-Total | 0.00130 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Iron (Fe)-Total | 0.587 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Lead (Pb)-Total | 0.00030 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Lithium (Li)-Total | 0.0014 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Magnesium (Mg)-Total | 3.64 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Manganese (Mn)-Total | 0.0596 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844686 |
| Molybdenum (Mo)-Total | 0.000185 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Nickel (Ni)-Total | 0.00134 | <DL | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Potassium (K)-Total | 0.97 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Rubidium (Rb)-Total | 0.00266 | | 0.00020 | mg/L | | 22-AUG-22 | R5848117 |
| Selenium (Se)-Total | 0.000125 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Silicon (Si)-Total | 2.42 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Sodium (Na)-Total | 2.86 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-7 SW17_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 10:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Strontium (Sr)-Total | 0.0272 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Sulfur (S)-Total | 1.0 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-AUG-22 | R5848117 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Tin (Sn)-Total | 0.00018 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Titanium (Ti)-Total | 0.0105 | | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Uranium (U)-Total | 0.000120 | <DL | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Vanadium (V)-Total | 0.00120 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Zinc (Zn)-Total | 0.0030 | <T | 0.0030 | mg/L | | 22-AUG-22 | R5848117 |
| Zirconium (Zr)-Total | 0.000328 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0232 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000055 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.000612 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0103 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | <0.0005 | <W | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | 0.0000010 | <DL | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 9.00 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | 0.000086 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00084 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.143 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0014 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 3.20 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.0340 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845315 |
| Molybdenum (Mo)-Dissolved | 0.000164 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00068 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 0.80 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00163 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000095 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 1.66 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|----------|-----------|-----------|----------|
| L2728012-7 SW17_SW_20220809 Sampled By: Client on 09-AUG-22 @ 10:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Sodium (Na)-Dissolved | 2.62 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0251 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 1.4 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | 0.000040 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00080 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.0000915 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00044 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0010 | <DL | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000168 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | 46 | | 10 | mg/L | 13-AUG-22 | 19-AUG-22 | R5846198 |
| Oil and Grease, Total | <0.2 | <W | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-8 SW25_SW_20220809 Sampled By: Client on 09-AUG-22 @ 10:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.11 | | 0.10 | pH | | 17-AUG-22 | R5844680 |
| Temperature, Client Supplied | 18.92 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 141 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 252 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 122 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.88 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 9.5 | | 3.0 | mg/L | | 16-AUG-22 | R5844520 |
| Total Dissolved Solids | 186 | | 20 | mg/L | | 16-AUG-22 | R5844577 |
| Turbidity | 7.52 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 121 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.154 | <T | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 7.25 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | 0.059 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.018 | <DL | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 1.21 | | 0.050 | mg/L | 18-AUG-22 | 23-AUG-22 | R5848503 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-8 SW25_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 10:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Orthophosphate-Dissolved (as P) | 0.0020 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 4.00 | <T | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 26.2 | | 0.50 | mg/L | 09-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 23.7 | | 0.50 | mg/L | | 19-AUG-22 | R5846982 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.204 | | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Antimony (Sb)-Total | 0.000070 | <DL | 0.00060 | mg/L | | 22-AUG-22 | R5848117 |
| Arsenic (As)-Total | 0.00144 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Barium (Ba)-Total | 0.0154 | | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Beryllium (Be)-Total | 0.0000052 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Boron (B)-Total | 0.0050 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Cadmium (Cd)-Total | 0.000001 | <DL | 0.000017 | mg/L | | 22-AUG-22 | R5848117 |
| Calcium (Ca)-Total | 32.8 | | 0.20 | mg/L | | 22-AUG-22 | R5848117 |
| Cesium (Cs)-Total | 0.0000295 | | 0.000010 | mg/L | | 22-AUG-22 | R5848117 |
| Chromium (Cr)-Total | 0.00506 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Cobalt (Co)-Total | 0.000280 | <DL | 0.00050 | mg/L | | 22-AUG-22 | R5848117 |
| Copper (Cu)-Total | 0.00154 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Iron (Fe)-Total | 0.639 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Lead (Pb)-Total | 0.00015 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Lithium (Li)-Total | 0.0030 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Magnesium (Mg)-Total | 12.1 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Manganese (Mn)-Total | 0.125 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 22-AUG-22 | R5847096 |
| Molybdenum (Mo)-Total | 0.000690 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Nickel (Ni)-Total | 0.00290 | <T | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Potassium (K)-Total | 1.15 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Rubidium (Rb)-Total | 0.00202 | | 0.00020 | mg/L | | 22-AUG-22 | R5848117 |
| Selenium (Se)-Total | 0.000170 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Silicon (Si)-Total | 4.56 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Sodium (Na)-Total | 2.89 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Strontium (Sr)-Total | 0.0708 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Sulfur (S)-Total | 1.2 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-AUG-22 | R5848117 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-8 SW25_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 10:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Titanium (Ti)-Total | 0.00579 | | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Uranium (U)-Total | 0.000520 | <DL | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Vanadium (V)-Total | 0.00100 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Zinc (Zn)-Total | 0.0090 | <T | 0.0030 | mg/L | | 22-AUG-22 | R5848117 |
| Zirconium (Zr)-Total | 0.000280 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0086 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000070 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00134 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0126 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | 0.0025 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 30.7 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00011 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | 0.000098 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00112 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.283 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0034 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 11.1 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.0485 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845315 |
| Molybdenum (Mo)-Dissolved | 0.000558 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00114 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 0.98 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00152 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 3.92 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 2.70 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0679 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 1.6 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|----------|-----------|-----------|----------|
| L2728012-8 SW25_SW_20220809 Sampled By: Client on 09-AUG-22 @ 10:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | 0.000035 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00064 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.000498 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00054 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0064 | <T | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000232 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | 87 | | 10 | mg/L | 13-AUG-22 | 19-AUG-22 | R5846198 |
| Oil and Grease, Total | 0.8 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-9 SW26_SW_20220809 Sampled By: Client on 09-AUG-22 @ 10:55 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.22 | | 0.10 | pH | | 17-AUG-22 | R5844680 |
| Temperature, Client Supplied | 19.05 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 129 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 272 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 136 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.93 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 2.0 | <DL | 3.0 | mg/L | | 16-AUG-22 | R5844520 |
| Total Dissolved Solids | 200 | | 20 | mg/L | | 16-AUG-22 | R5844577 |
| Turbidity | 4.73 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 134 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.026 | <T | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 7.24 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | 0.062 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 0.998 | | 0.050 | mg/L | 18-AUG-22 | 23-AUG-22 | R5848503 |
| Orthophosphate-Dissolved (as P) | 0.0032 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 4.75 | <T | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-9 SW26_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 10:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 25.5 | | 0.50 | mg/L | 09-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 24.1 | | 0.50 | mg/L | | 19-AUG-22 | R5846982 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.188 | | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Antimony (Sb)-Total | 0.000075 | <DL | 0.00060 | mg/L | | 22-AUG-22 | R5848117 |
| Arsenic (As)-Total | 0.00158 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Barium (Ba)-Total | 0.0161 | | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Beryllium (Be)-Total | 0.0000042 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Boron (B)-Total | 0.0065 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Cadmium (Cd)-Total | 0.000001 | <DL | 0.000017 | mg/L | | 22-AUG-22 | R5848117 |
| Calcium (Ca)-Total | 36.7 | | 0.20 | mg/L | | 22-AUG-22 | R5848117 |
| Cesium (Cs)-Total | 0.0000255 | | 0.000010 | mg/L | | 22-AUG-22 | R5848117 |
| Chromium (Cr)-Total | 0.00086 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Cobalt (Co)-Total | 0.000175 | <DL | 0.00050 | mg/L | | 22-AUG-22 | R5848117 |
| Copper (Cu)-Total | 0.00148 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Iron (Fe)-Total | 0.514 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Lead (Pb)-Total | 0.00011 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Lithium (Li)-Total | 0.0040 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Magnesium (Mg)-Total | 13.6 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Manganese (Mn)-Total | 0.0486 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844686 |
| Molybdenum (Mo)-Total | 0.000685 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Nickel (Ni)-Total | 0.00156 | <DL | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Potassium (K)-Total | 1.16 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Rubidium (Rb)-Total | 0.00174 | | 0.00020 | mg/L | | 22-AUG-22 | R5848117 |
| Selenium (Se)-Total | 0.000210 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Silicon (Si)-Total | 4.58 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Sodium (Na)-Total | 3.22 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Strontium (Sr)-Total | 0.0821 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Sulfur (S)-Total | 1.6 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-AUG-22 | R5848117 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Titanium (Ti)-Total | 0.00531 | | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-9 SW26_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 10:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Uranium (U)-Total | 0.000579 | <DL | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Vanadium (V)-Total | 0.00100 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Zinc (Zn)-Total | 0.0080 | <T | 0.0030 | mg/L | | 22-AUG-22 | R5848117 |
| Zirconium (Zr)-Total | 0.000310 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0086 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000075 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00144 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0141 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | 0.0040 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 34.3 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00014 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | 0.000098 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00118 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.242 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0040 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 12.2 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.0339 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845315 |
| Molybdenum (Mo)-Dissolved | 0.000598 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00120 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 1.01 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00137 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 4.07 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 2.95 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0780 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 1.8 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|--------|----------|-----------|-----------|----------|
| L2728012-9 SW26_SW_20220809 Sampled By: Client on 09-AUG-22 @ 10:55 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Titanium (Ti)-Dissolved | 0.00072 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | 0.000006 | <DL | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.000540 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00056 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0060 | <T | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000262 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | 68 | | 10 | mg/L | 13-AUG-22 | 19-AUG-22 | R5846198 |
| Oil and Grease, Total | 0.4 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-10 SW15_SW_20220809 Sampled By: Client on 09-AUG-22 @ 11:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.61 | | 0.10 | pH | | 17-AUG-22 | R5844680 |
| Temperature, Client Supplied | 21.66 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 291 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 349 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 141 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.70 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 6.0 | | 3.0 | mg/L | | 16-AUG-22 | R5844520 |
| Total Dissolved Solids | 288 | | 20 | mg/L | | 16-AUG-22 | R5844577 |
| Turbidity | 4.85 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.4 | <DL | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 106 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.042 | <T | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 6.08 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | 0.058 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.234 | <T | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | 0.014 | <T | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 1.52 | | 0.050 | mg/L | 18-AUG-22 | 23-AUG-22 | R5848503 |
| Orthophosphate-Dissolved (as P) | 0.0294 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 66.2 | | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0013 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0014 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 39.1 | | 0.50 | mg/L | 09-AUG-22 | 23-AUG-22 | R5848176 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-10 SW15_SW_20220809 Sampled By: Client on 09-AUG-22 @ 11:30 Matrix: SW | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Total Organic Carbon | 37.7 | | 0.50 | mg/L | | 19-AUG-22 | R5846982 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.242 | | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Antimony (Sb)-Total | 0.00150 | <T | 0.00060 | mg/L | | 22-AUG-22 | R5848117 |
| Arsenic (As)-Total | 0.00226 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Barium (Ba)-Total | 0.0260 | | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Beryllium (Be)-Total | 0.0000187 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Boron (B)-Total | 0.0165 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Cadmium (Cd)-Total | 0.000011 | <DL | 0.000017 | mg/L | | 22-AUG-22 | R5848117 |
| Calcium (Ca)-Total | 37.7 | | 0.20 | mg/L | | 22-AUG-22 | R5848117 |
| Cesium (Cs)-Total | 0.0000295 | | 0.000010 | mg/L | | 22-AUG-22 | R5848117 |
| Chromium (Cr)-Total | 0.00070 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Cobalt (Co)-Total | 0.000595 | <T | 0.00050 | mg/L | | 22-AUG-22 | R5848117 |
| Copper (Cu)-Total | 0.00156 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Iron (Fe)-Total | 0.960 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Lead (Pb)-Total | 0.00028 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Lithium (Li)-Total | 0.0058 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Magnesium (Mg)-Total | 13.9 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Manganese (Mn)-Total | 0.146 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844686 |
| Molybdenum (Mo)-Total | 0.00162 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Nickel (Ni)-Total | 0.00216 | <T | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Phosphorus (P)-Total | 0.065 | | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Potassium (K)-Total | 6.01 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Rubidium (Rb)-Total | 0.00388 | | 0.00020 | mg/L | | 22-AUG-22 | R5848117 |
| Selenium (Se)-Total | 0.000250 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Silicon (Si)-Total | 5.50 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Sodium (Na)-Total | 15.6 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Strontium (Sr)-Total | 0.111 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Sulfur (S)-Total | 23.8 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-AUG-22 | R5848117 |
| Thorium (Th)-Total | 0.00008 | <DL | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Titanium (Ti)-Total | 0.00765 | | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Uranium (U)-Total | 0.000510 | <DL | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Vanadium (V)-Total | 0.00170 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Zinc (Zn)-Total | 0.0025 | <DL | 0.0030 | mg/L | | 22-AUG-22 | R5848117 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-10 SW15_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 11:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Zirconium (Zr)-Total | 0.000598 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0510 | | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.00138 | <T | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00200 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0230 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000020 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | 0.0130 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | 0.0000080 | <DL | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 35.4 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00023 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | 0.000430 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00122 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.643 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00014 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0056 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 12.8 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.110 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845315 |
| Molybdenum (Mo)-Dissolved | 0.00137 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00176 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.040 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 5.46 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00330 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000225 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 4.83 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 14.4 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.108 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 22.4 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00008 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00198 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | 0.000012 | <DL | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.000469 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00120 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|---------|-------|-----------|-----------|----------|
| L2728012-10 SW15_SW_20220809 Sampled By: Client on 09-AUG-22 @ 11:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Zinc (Zn)-Dissolved | 0.0012 | <DL | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000556 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | 118 | | 10 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845312 |
| Oil and Grease, Total | 0.4 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-11 FB_SW_20220809 Sampled By: Client on 09-AUG-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 0.2 | <DL | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 5.74 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 16-AUG-22 | R5844520 |
| Total Dissolved Solids | 6 | <DL | 10 | mg/L | | 16-AUG-22 | R5844577 |
| Turbidity | <0.10 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 0.109 | | 0.050 | mg/L | 18-AUG-22 | 23-AUG-22 | R5848503 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 0.05 | <DL | 0.30 | mg/L | | 17-AUG-22 | R5844808 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0003 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0002 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 17-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 19-AUG-22 | R5846982 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0028 | <DL | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00060 | mg/L | | 22-AUG-22 | R5848117 |
| Arsenic (As)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Barium (Ba)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-11 FB_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 22-AUG-22 | R5848117 |
| Calcium (Ca)-Total | 0.006 | <DL | 0.20 | mg/L | | 22-AUG-22 | R5848117 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 22-AUG-22 | R5848117 |
| Chromium (Cr)-Total | 0.00052 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 22-AUG-22 | R5848117 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Iron (Fe)-Total | 0.0020 | <DL | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Lead (Pb)-Total | <0.00001 | <W | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Magnesium (Mg)-Total | 0.0024 | <DL | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844686 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Nickel (Ni)-Total | 0.00016 | <DL | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Rubidium (Rb)-Total | <0.000002 | <W | 0.00020 | mg/L | | 22-AUG-22 | R5848117 |
| Selenium (Se)-Total | <0.000005 | <W | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Silicon (Si)-Total | 0.028 | <DL | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Sodium (Na)-Total | 0.020 | <DL | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Strontium (Sr)-Total | <0.000005 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-AUG-22 | R5848117 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Titanium (Ti)-Total | <0.00001 | <W | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Vanadium (V)-Total | <0.00005 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Zinc (Zn)-Total | 0.0005 | <DL | 0.0030 | mg/L | | 22-AUG-22 | R5848117 |
| Zirconium (Zr)-Total | <0.000002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | <0.0002 | <W | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | <0.0000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | <0.000005 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-11 FB_SW_20220809 Sampled By: Client on 09-AUG-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | <0.0005 | <W | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 0.008 | <DL | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845315 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 0.015 | <DL | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | 0.000105 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | 0.000010 | <DL | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845312 |
| Oil and Grease, Total | 0.6 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-12 SW23_SW_20220809 Sampled By: Client on 09-AUG-22 @ 12:10 | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2728012-12 SW23_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 12:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.87 | | 0.10 | pH | | 17-AUG-22 | R5844680 |
| Temperature, Client Supplied | 21.26 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 208 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 282 | | 1.0 | uS/cm | | 15-AUG-22 | R5846120 |
| Hardness (as CaCO3) | 149 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 8.24 | | 0.10 | pH | | 15-AUG-22 | R5846120 |
| Total Suspended Solids | 43.5 | DLIS | 25 | mg/L | | 16-AUG-22 | R5844520 |
| Total Dissolved Solids | 332 | DLIS | 67 | mg/L | | 16-AUG-22 | R5844577 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Ammonia, Total (as N) | 0.030 | <T | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 3.34 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | 0.054 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.014 | <DL | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 1.66 | | 0.050 | mg/L | 18-AUG-22 | 23-AUG-22 | R5848503 |
| Orthophosphate-Dissolved (as P) | 0.0427 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 10.7 | | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0011 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 36.9 | | 0.50 | mg/L | 09-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 35.1 | | 0.50 | mg/L | | 19-AUG-22 | R5846982 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.424 | | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Antimony (Sb)-Total | 0.000145 | <DL | 0.00060 | mg/L | | 22-AUG-22 | R5848117 |
| Arsenic (As)-Total | 0.00302 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Barium (Ba)-Total | 0.0216 | | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Beryllium (Be)-Total | 0.0000249 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Boron (B)-Total | 0.0105 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Cadmium (Cd)-Total | 0.000012 | <DL | 0.000017 | mg/L | | 22-AUG-22 | R5848117 |
| Calcium (Ca)-Total | 36.6 | | 0.20 | mg/L | | 22-AUG-22 | R5848117 |
| Cesium (Cs)-Total | 0.0000530 | | 0.000010 | mg/L | | 22-AUG-22 | R5848117 |
| Chromium (Cr)-Total | 0.00106 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Cobalt (Co)-Total | 0.000635 | <T | 0.00050 | mg/L | | 22-AUG-22 | R5848117 |
| Copper (Cu)-Total | 0.00138 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Iron (Fe)-Total | 1.46 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-12 SW23_SW_20220809 | | | | | | | |
| Sampled By: Client on 09-AUG-22 @ 12:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Lead (Pb)-Total | 0.00042 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Lithium (Li)-Total | 0.0054 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Magnesium (Mg)-Total | 15.6 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Manganese (Mn)-Total | 0.188 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844686 |
| Molybdenum (Mo)-Total | 0.000700 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Nickel (Ni)-Total | 0.00266 | <T | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Phosphorus (P)-Total | 0.095 | | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Potassium (K)-Total | 1.23 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Rubidium (Rb)-Total | 0.00259 | | 0.00020 | mg/L | | 22-AUG-22 | R5848117 |
| Selenium (Se)-Total | 0.000255 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Silicon (Si)-Total | 6.37 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Sodium (Na)-Total | 4.72 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Strontium (Sr)-Total | 0.0926 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Sulfur (S)-Total | 4.2 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-AUG-22 | R5848117 |
| Thorium (Th)-Total | 0.00008 | <DL | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Tin (Sn)-Total | 0.00005 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Titanium (Ti)-Total | 0.0128 | | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Uranium (U)-Total | 0.000474 | <DL | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Vanadium (V)-Total | 0.00205 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Zinc (Zn)-Total | 0.0030 | <T | 0.0030 | mg/L | | 22-AUG-22 | R5848117 |
| Zirconium (Zr)-Total | 0.000692 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0228 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000140 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00276 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0175 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000018 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | 0.0080 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | 0.0000040 | <DL | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 35.4 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00033 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | 0.000378 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00096 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-12 SW23_SW_20220809 Sampled By: Client on 09-AUG-22 @ 12:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Iron (Fe)-Dissolved | 0.830 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00020 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0052 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 14.7 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.155 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845315 |
| Molybdenum (Mo)-Dissolved | 0.000614 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00194 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.060 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 1.06 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00148 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000280 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 5.25 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 4.43 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0866 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 4.0 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00132 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.000436 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00110 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0092 | DTC | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000528 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | 109 | | 10 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845312 |
| Oil and Grease, Total | 0.6 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-13 SW23_SW_20220809 Sampled By: Client on 09-AUG-22 @ 12:10 Matrix: SW | | | | | | | |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.010 | | 0.010 | Bq/L | | 08-SEP-22 | R5857700 |
| L2728012-14 SW24_SW_20220809 Sampled By: Client on 10-AUG-22 @ 00:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.8 | | 0.10 | pH | | 17-AUG-22 | R5844680 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2728012-14 SW24_SW_20220809 Sampled By: Client on 10-AUG-22 @ 00:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Temperature, Client Supplied | 21.82 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 212 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 288 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 149 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.85 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 9.0 | | 3.0 | mg/L | | 16-AUG-22 | R5844262 |
| Total Dissolved Solids | 242 | | 20 | mg/L | | 16-AUG-22 | R5844296 |
| Turbidity | 7.67 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 142 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.026 | <T | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 3.59 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | 0.057 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.024 | <T | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 1.62 | | 0.050 | mg/L | 18-AUG-22 | 23-AUG-22 | R5848503 |
| Orthophosphate-Dissolved (as P) | 0.0445 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 12.0 | | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0012 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 36.7 | | 0.50 | mg/L | 10-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 35.6 | | 0.50 | mg/L | | 19-AUG-22 | R5846982 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.286 | | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Antimony (Sb)-Total | 0.000195 | <DL | 0.00060 | mg/L | | 22-AUG-22 | R5848117 |
| Arsenic (As)-Total | 0.00297 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Barium (Ba)-Total | 0.0201 | | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Beryllium (Be)-Total | 0.0000186 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Boron (B)-Total | 0.0105 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Cadmium (Cd)-Total | 0.000010 | <DL | 0.000017 | mg/L | | 22-AUG-22 | R5848117 |
| Calcium (Ca)-Total | 36.4 | | 0.20 | mg/L | | 22-AUG-22 | R5848117 |
| Cesium (Cs)-Total | 0.0000390 | | 0.000010 | mg/L | | 22-AUG-22 | R5848117 |
| Chromium (Cr)-Total | 0.00094 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Cobalt (Co)-Total | 0.000550 | <T | 0.00050 | mg/L | | 22-AUG-22 | R5848117 |
| Copper (Cu)-Total | 0.00134 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-14 SW24_SW_20220809 | | | | | | | |
| Sampled By: Client on 10-AUG-22 @ 00:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Iron (Fe)-Total | 1.30 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Lead (Pb)-Total | 0.00031 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Lithium (Li)-Total | 0.0050 | <DL | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Magnesium (Mg)-Total | 15.4 | | 0.020 | mg/L | | 22-AUG-22 | R5848117 |
| Manganese (Mn)-Total | 0.189 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844686 |
| Molybdenum (Mo)-Total | 0.000730 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Nickel (Ni)-Total | 0.00260 | <T | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Phosphorus (P)-Total | 0.085 | | 0.050 | mg/L | | 22-AUG-22 | R5848117 |
| Potassium (K)-Total | 1.39 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Rubidium (Rb)-Total | 0.00228 | | 0.00020 | mg/L | | 22-AUG-22 | R5848117 |
| Selenium (Se)-Total | 0.000315 | <T | 0.000050 | mg/L | | 22-AUG-22 | R5848117 |
| Silicon (Si)-Total | 5.87 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Sodium (Na)-Total | 4.95 | | 0.10 | mg/L | | 22-AUG-22 | R5848117 |
| Strontium (Sr)-Total | 0.0924 | | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Sulfur (S)-Total | 4.4 | | 0.50 | mg/L | | 22-AUG-22 | R5848117 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-AUG-22 | R5848117 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 22-AUG-22 | R5848117 |
| Tin (Sn)-Total | 0.00005 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Titanium (Ti)-Total | 0.00882 | | 0.0020 | mg/L | | 22-AUG-22 | R5848117 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-AUG-22 | R5848117 |
| Uranium (U)-Total | 0.000465 | <DL | 0.0050 | mg/L | | 22-AUG-22 | R5848117 |
| Vanadium (V)-Total | 0.00165 | <T | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Zinc (Zn)-Total | 0.0030 | <T | 0.0030 | mg/L | | 22-AUG-22 | R5848117 |
| Zirconium (Zr)-Total | 0.000582 | <DL | 0.0010 | mg/L | | 22-AUG-22 | R5848117 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0262 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000190 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00277 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0168 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | 0.0080 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | 0.0000060 | <DL | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 36.2 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00021 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | 0.000368 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-14 SW24_SW_20220809 Sampled By: Client on 10-AUG-22 @ 00:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Copper (Cu)-Dissolved | 0.00096 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.824 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00017 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0052 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 14.3 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.170 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845315 |
| Molybdenum (Mo)-Dissolved | 0.000670 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00202 | <T | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.070 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 1.20 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00155 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000255 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 5.17 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 4.63 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0925 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 4.6 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | 0.000135 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00132 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.000450 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00104 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0046 | <T | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000548 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | 113 | | 10 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845312 |
| Oil and Grease, Total | 0.8 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-15 SW24_SW_20220809 Sampled By: Client on 10-AUG-22 @ 00:30 Matrix: SW | | | | | | | |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.010 | | 0.010 | Bq/L | | 08-SEP-22 | R5857700 |
| L2728012-16 SW22A_SW_20220809 Sampled By: Client on 10-AUG-22 @ 11:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2728012-16 SW22A_SW_20220809 | | | | | | | |
| Sampled By: Client on 10-AUG-22 @ 11:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.68 | | 0.10 | pH | | 17-AUG-22 | R5844680 |
| Temperature, Client Supplied | 19.97 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 131 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 301 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 150 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.87 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 8.0 | | 3.0 | mg/L | | 16-AUG-22 | R5844262 |
| Total Dissolved Solids | 220 | | 20 | mg/L | | 16-AUG-22 | R5844296 |
| Turbidity | 6.56 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 148 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.032 | <T | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 8.64 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | 0.058 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.010 | <DL | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 1.28 | | 0.050 | mg/L | 18-AUG-22 | 23-AUG-22 | R5848503 |
| Orthophosphate-Dissolved (as P) | 0.0305 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 5.50 | | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | 0.0007 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 29.6 | | 0.50 | mg/L | 10-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 28.4 | | 0.50 | mg/L | | 19-AUG-22 | R5846982 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.275 | | 0.0050 | mg/L | | 23-AUG-22 | R5848238 |
| Antimony (Sb)-Total | 0.000105 | <DL | 0.00060 | mg/L | | 23-AUG-22 | R5848238 |
| Arsenic (As)-Total | 0.00197 | <T | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Barium (Ba)-Total | 0.0179 | | 0.010 | mg/L | | 23-AUG-22 | R5848238 |
| Beryllium (Be)-Total | 0.0000011 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Bismuth (Bi)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Boron (B)-Total | 0.0120 | <DL | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Cadmium (Cd)-Total | 0.000009 | <DL | 0.000017 | mg/L | | 23-AUG-22 | R5848238 |
| Calcium (Ca)-Total | 37.1 | | 0.20 | mg/L | | 23-AUG-22 | R5848238 |
| Cesium (Cs)-Total | 0.0000395 | | 0.000010 | mg/L | | 23-AUG-22 | R5848238 |
| Chromium (Cr)-Total | 0.00122 | | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Cobalt (Co)-Total | 0.000380 | <DL | 0.00050 | mg/L | | 23-AUG-22 | R5848238 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-16 SW22A_SW_20220809 | | | | | | | |
| Sampled By: Client on 10-AUG-22 @ 11:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Copper (Cu)-Total | 0.00104 | <T | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Iron (Fe)-Total | 0.673 | | 0.020 | mg/L | | 23-AUG-22 | R5848238 |
| Lead (Pb)-Total | 0.00020 | <T | 0.000050 | mg/L | | 23-AUG-22 | R5848238 |
| Lithium (Li)-Total | 0.0038 | <DL | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Magnesium (Mg)-Total | 14.2 | | 0.020 | mg/L | | 23-AUG-22 | R5848238 |
| Manganese (Mn)-Total | 0.146 | | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844686 |
| Molybdenum (Mo)-Total | 0.000600 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Nickel (Ni)-Total | 0.00206 | <T | 0.0020 | mg/L | | 23-AUG-22 | R5848238 |
| Phosphorus (P)-Total | 0.055 | | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Potassium (K)-Total | 1.41 | | 0.50 | mg/L | | 23-AUG-22 | R5848238 |
| Rubidium (Rb)-Total | 0.00209 | | 0.00020 | mg/L | | 23-AUG-22 | R5848238 |
| Selenium (Se)-Total | 0.000255 | <T | 0.000050 | mg/L | | 23-AUG-22 | R5848238 |
| Silicon (Si)-Total | 5.16 | | 0.10 | mg/L | | 23-AUG-22 | R5848238 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 23-AUG-22 | R5848238 |
| Sodium (Na)-Total | 5.50 | | 0.10 | mg/L | | 23-AUG-22 | R5848238 |
| Strontium (Sr)-Total | 0.0979 | | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Sulfur (S)-Total | 2.0 | | 0.50 | mg/L | | 23-AUG-22 | R5848238 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Thallium (Tl)-Total | 0.000020 | <DL | 0.00030 | mg/L | | 23-AUG-22 | R5848238 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 23-AUG-22 | R5848238 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Titanium (Ti)-Total | 0.00740 | | 0.0020 | mg/L | | 23-AUG-22 | R5848238 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 23-AUG-22 | R5848238 |
| Uranium (U)-Total | 0.000527 | <DL | 0.0050 | mg/L | | 23-AUG-22 | R5848238 |
| Vanadium (V)-Total | 0.00135 | <T | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Zinc (Zn)-Total | 0.0035 | <T | 0.0030 | mg/L | | 23-AUG-22 | R5848238 |
| Zirconium (Zr)-Total | 0.000464 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0146 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000085 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00171 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0150 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | 0.0085 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 36.3 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00017 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-16 SW22A_SW_20220809 Sampled By: Client on 10-AUG-22 @ 11:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Cobalt (Co)-Dissolved | 0.000226 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00076 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.278 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0052 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 14.5 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.129 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845316 |
| Molybdenum (Mo)-Dissolved | 0.000508 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00152 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.050 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 1.27 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00140 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000200 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 4.58 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 5.41 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0924 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 2.2 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | 0.000005 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00072 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.000490 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00070 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0018 | <DL | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000304 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | 87 | | 10 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845312 |
| Oil and Grease, Total | 0.8 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-17 SW22A_SW_20220809 Sampled By: Client on 10-AUG-22 @ 11:30 Matrix: SW | | | | | | | |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.010 | | 0.010 | Bq/L | | 08-SEP-22 | R5857700 |
| L2728012-18 SW21A_SW_20220809 Sampled By: Client on 10-AUG-22 @ 11:45 Matrix: SW | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|----------|-----------|-----------|----------|
| L2728012-18 SW21A_SW_20220809 | | | | | | | |
| Sampled By: Client on 10-AUG-22 @ 11:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.56 | | 0.10 | pH | | 17-AUG-22 | R5844680 |
| Temperature, Client Supplied | 20.05 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 157 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 272 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 139 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.75 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 16-AUG-22 | R5844262 |
| Total Dissolved Solids | 208 | | 20 | mg/L | | 16-AUG-22 | R5844296 |
| Turbidity | 1.61 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 137 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.016 | <T | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 7.41 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | 0.054 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 1.45 | | 0.050 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845784 |
| Orthophosphate-Dissolved (as P) | 0.0415 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 1.35 | <T | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | 0.0008 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 33.4 | | 0.50 | mg/L | 10-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 31.9 | | 0.50 | mg/L | | 19-AUG-22 | R5846982 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0192 | <T | 0.0050 | mg/L | | 23-AUG-22 | R5848238 |
| Antimony (Sb)-Total | 0.000070 | <DL | 0.00060 | mg/L | | 23-AUG-22 | R5848238 |
| Arsenic (As)-Total | 0.00217 | <T | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Barium (Ba)-Total | 0.0147 | | 0.010 | mg/L | | 23-AUG-22 | R5848238 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Bismuth (Bi)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Boron (B)-Total | 0.0105 | <DL | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Cadmium (Cd)-Total | 0.000003 | <DL | 0.000017 | mg/L | | 23-AUG-22 | R5848238 |
| Calcium (Ca)-Total | 34.5 | | 0.20 | mg/L | | 23-AUG-22 | R5848238 |
| Cesium (Cs)-Total | 0.0000020 | <DL | 0.000010 | mg/L | | 23-AUG-22 | R5848238 |
| Chromium (Cr)-Total | 0.00050 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Cobalt (Co)-Total | 0.000405 | <DL | 0.00050 | mg/L | | 23-AUG-22 | R5848238 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-18 SW21A_SW_20220809 | | | | | | | |
| Sampled By: Client on 10-AUG-22 @ 11:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Copper (Cu)-Total | 0.00034 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Iron (Fe)-Total | 0.641 | | 0.020 | mg/L | | 23-AUG-22 | R5848238 |
| Lead (Pb)-Total | 0.00004 | <DL | 0.000050 | mg/L | | 23-AUG-22 | R5848238 |
| Lithium (Li)-Total | 0.0034 | <DL | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Magnesium (Mg)-Total | 13.5 | | 0.020 | mg/L | | 23-AUG-22 | R5848238 |
| Manganese (Mn)-Total | 0.317 | | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844687 |
| Molybdenum (Mo)-Total | 0.000365 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Nickel (Ni)-Total | 0.00168 | <DL | 0.0020 | mg/L | | 23-AUG-22 | R5848238 |
| Phosphorus (P)-Total | 0.080 | | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Potassium (K)-Total | 0.93 | | 0.50 | mg/L | | 23-AUG-22 | R5848238 |
| Rubidium (Rb)-Total | 0.00161 | | 0.00020 | mg/L | | 23-AUG-22 | R5848238 |
| Selenium (Se)-Total | 0.000225 | <T | 0.000050 | mg/L | | 23-AUG-22 | R5848238 |
| Silicon (Si)-Total | 5.38 | | 0.10 | mg/L | | 23-AUG-22 | R5848238 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 23-AUG-22 | R5848238 |
| Sodium (Na)-Total | 5.02 | | 0.10 | mg/L | | 23-AUG-22 | R5848238 |
| Strontium (Sr)-Total | 0.0901 | | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Sulfur (S)-Total | 0.6 | | 0.50 | mg/L | | 23-AUG-22 | R5848238 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 23-AUG-22 | R5848238 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 23-AUG-22 | R5848238 |
| Tin (Sn)-Total | 0.00005 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Titanium (Ti)-Total | 0.00080 | <DL | 0.0020 | mg/L | | 23-AUG-22 | R5848238 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 23-AUG-22 | R5848238 |
| Uranium (U)-Total | 0.000199 | <DL | 0.0050 | mg/L | | 23-AUG-22 | R5848238 |
| Vanadium (V)-Total | 0.00050 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 23-AUG-22 | R5848238 |
| Zirconium (Zr)-Total | 0.000286 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0088 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000065 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00201 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0136 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | 0.0080 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | 0.0000010 | <DL | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 32.5 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00019 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-18 SW21A_SW_20220809 Sampled By: Client on 10-AUG-22 @ 11:45 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Cobalt (Co)-Dissolved | 0.000368 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00024 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.504 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0048 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 14.0 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.269 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845316 |
| Molybdenum (Mo)-Dissolved | 0.000294 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00158 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.075 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 0.88 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00162 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000235 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 5.31 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 4.98 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0852 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 0.8 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | 0.000035 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00040 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.000199 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00044 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0010 | <DL | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000304 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | 99 | | 10 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845312 |
| Oil and Grease, Total | 0.8 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-19 SW06_SW_20220809 Sampled By: Client on 10-AUG-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 159 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 297 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 154 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.93 | | 0.10 | pH | | 13-AUG-22 | R5842741 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-19 SW06_SW_20220809 | | | | | | | |
| Sampled By: Client on 10-AUG-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Total Suspended Solids | 5.0 | | 3.0 | mg/L | | 16-AUG-22 | R5844262 |
| Total Dissolved Solids | 232 | | 20 | mg/L | | 16-AUG-22 | R5844296 |
| Turbidity | 4.81 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 140 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.026 | <T | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Chloride (Cl) | 6.89 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | 0.056 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.008 | <DL | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 1.26 | | 0.050 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845784 |
| Orthophosphate-Dissolved (as P) | 0.0328 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 12.6 | | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | 0.0008 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 33.0 | | 0.50 | mg/L | 10-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 31.4 | | 0.50 | mg/L | | 19-AUG-22 | R5846982 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0642 | | 0.0050 | mg/L | | 23-AUG-22 | R5848238 |
| Antimony (Sb)-Total | 0.000175 | <DL | 0.00060 | mg/L | | 23-AUG-22 | R5848238 |
| Arsenic (As)-Total | 0.00217 | <T | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Barium (Ba)-Total | 0.0197 | | 0.010 | mg/L | | 23-AUG-22 | R5848238 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Bismuth (Bi)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Boron (B)-Total | 0.0130 | <DL | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Cadmium (Cd)-Total | 0.000009 | <DL | 0.000017 | mg/L | | 23-AUG-22 | R5848238 |
| Calcium (Ca)-Total | 38.0 | | 0.20 | mg/L | | 23-AUG-22 | R5848238 |
| Cesium (Cs)-Total | 0.0000095 | <DL | 0.000010 | mg/L | | 23-AUG-22 | R5848238 |
| Chromium (Cr)-Total | 0.00040 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Cobalt (Co)-Total | 0.000310 | <DL | 0.00050 | mg/L | | 23-AUG-22 | R5848238 |
| Copper (Cu)-Total | 0.00158 | <T | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Iron (Fe)-Total | 0.521 | | 0.020 | mg/L | | 23-AUG-22 | R5848238 |
| Lead (Pb)-Total | 0.00017 | <T | 0.000050 | mg/L | | 23-AUG-22 | R5848238 |
| Lithium (Li)-Total | 0.0042 | <DL | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Magnesium (Mg)-Total | 13.7 | | 0.020 | mg/L | | 23-AUG-22 | R5848238 |
| Manganese (Mn)-Total | 0.112 | | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844687 |
| Molybdenum (Mo)-Total | 0.000650 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-19 SW06_SW_20220809 | | | | | | | |
| Sampled By: Client on 10-AUG-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Nickel (Ni)-Total | 0.00222 | <T | 0.0020 | mg/L | | 23-AUG-22 | R5848238 |
| Phosphorus (P)-Total | 0.050 | | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Potassium (K)-Total | 1.45 | | 0.50 | mg/L | | 23-AUG-22 | R5848238 |
| Rubidium (Rb)-Total | 0.00200 | | 0.00020 | mg/L | | 23-AUG-22 | R5848238 |
| Selenium (Se)-Total | 0.000260 | <T | 0.000050 | mg/L | | 23-AUG-22 | R5848238 |
| Silicon (Si)-Total | 4.19 | | 0.10 | mg/L | | 23-AUG-22 | R5848238 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 23-AUG-22 | R5848238 |
| Sodium (Na)-Total | 5.88 | | 0.10 | mg/L | | 23-AUG-22 | R5848238 |
| Strontium (Sr)-Total | 0.0999 | | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Sulfur (S)-Total | 4.6 | | 0.50 | mg/L | | 23-AUG-22 | R5848238 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 23-AUG-22 | R5848238 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 23-AUG-22 | R5848238 |
| Tin (Sn)-Total | 0.00013 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Titanium (Ti)-Total | 0.00243 | | 0.0020 | mg/L | | 23-AUG-22 | R5848238 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 23-AUG-22 | R5848238 |
| Uranium (U)-Total | 0.000508 | <DL | 0.0050 | mg/L | | 23-AUG-22 | R5848238 |
| Vanadium (V)-Total | 0.00115 | <T | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Zinc (Zn)-Total | 0.0025 | <DL | 0.0030 | mg/L | | 23-AUG-22 | R5848238 |
| Zirconium (Zr)-Total | 0.000406 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0148 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000160 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00201 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0183 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | 0.0105 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | 0.0000040 | <DL | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 38.0 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00014 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | 0.000266 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00144 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.370 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00008 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0056 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 14.3 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.104 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845316 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2728012-19 SW06_SW_20220809 Sampled By: Client on 10-AUG-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Molybdenum (Mo)-Dissolved | 0.000632 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00210 | <T | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.055 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 1.39 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00184 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000220 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 3.95 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 5.77 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0956 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 4.6 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00086 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.000499 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00094 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0028 | <DL | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000364 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | 96 | | 10 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845312 |
| Oil and Grease, Total | 0.4 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-20 SW27_SW_20220809 Sampled By: Client on 10-AUG-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 123 | | 2.0 | CU | | 16-AUG-22 | R5843417 |
| Conductivity (EC) | 298 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 150 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 8.21 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 10.0 | | 5.0 | mg/L | | 16-AUG-22 | R5844262 |
| Total Dissolved Solids | 212 | | 20 | mg/L | | 16-AUG-22 | R5844296 |
| Turbidity | 11.0 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 144 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.014 | <T | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Chloride (Cl) | 8.58 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-20 SW27_SW_20220809 | | | | | | | |
| Sampled By: Client on 10-AUG-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Fluoride (F) | 0.064 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.006 | <DL | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 0.961 | | 0.050 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845784 |
| Orthophosphate-Dissolved (as P) | 0.0088 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 6.50 | | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 25.8 | | 0.50 | mg/L | 10-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 24.8 | | 0.50 | mg/L | | 19-AUG-22 | R5846982 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.130 | | 0.0050 | mg/L | | 23-AUG-22 | R5848238 |
| Antimony (Sb)-Total | 0.000090 | <DL | 0.00060 | mg/L | | 23-AUG-22 | R5848238 |
| Arsenic (As)-Total | 0.00172 | <T | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Barium (Ba)-Total | 0.0168 | | 0.010 | mg/L | | 23-AUG-22 | R5848238 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Boron (B)-Total | 0.0080 | <DL | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Cadmium (Cd)-Total | 0.000010 | <DL | 0.000017 | mg/L | | 23-AUG-22 | R5848238 |
| Calcium (Ca)-Total | 38.3 | | 0.20 | mg/L | | 23-AUG-22 | R5848238 |
| Cesium (Cs)-Total | 0.0000115 | | 0.000010 | mg/L | | 23-AUG-22 | R5848238 |
| Chromium (Cr)-Total | 0.00046 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Cobalt (Co)-Total | 0.000275 | <DL | 0.00050 | mg/L | | 23-AUG-22 | R5848238 |
| Copper (Cu)-Total | 0.00144 | <T | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Iron (Fe)-Total | 0.475 | | 0.020 | mg/L | | 23-AUG-22 | R5848238 |
| Lead (Pb)-Total | 0.00020 | <T | 0.000050 | mg/L | | 23-AUG-22 | R5848238 |
| Lithium (Li)-Total | 0.0034 | <DL | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Magnesium (Mg)-Total | 13.6 | | 0.020 | mg/L | | 23-AUG-22 | R5848238 |
| Manganese (Mn)-Total | 0.103 | | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844687 |
| Molybdenum (Mo)-Total | 0.000600 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Nickel (Ni)-Total | 0.00160 | <DL | 0.0020 | mg/L | | 23-AUG-22 | R5848238 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Potassium (K)-Total | 1.45 | | 0.50 | mg/L | | 23-AUG-22 | R5848238 |
| Rubidium (Rb)-Total | 0.00152 | | 0.00020 | mg/L | | 23-AUG-22 | R5848238 |
| Selenium (Se)-Total | 0.000205 | <T | 0.000050 | mg/L | | 23-AUG-22 | R5848238 |
| Silicon (Si)-Total | 4.38 | | 0.10 | mg/L | | 23-AUG-22 | R5848238 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 23-AUG-22 | R5848238 |
| Sodium (Na)-Total | 5.04 | | 0.10 | mg/L | | 23-AUG-22 | R5848238 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-20 SW27_SW_20220809 | | | | | | | |
| Sampled By: Client on 10-AUG-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Strontium (Sr)-Total | 0.0901 | | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Sulfur (S)-Total | 2.2 | | 0.50 | mg/L | | 23-AUG-22 | R5848238 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 23-AUG-22 | R5848238 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 23-AUG-22 | R5848238 |
| Tin (Sn)-Total | 0.00009 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Titanium (Ti)-Total | 0.00358 | | 0.0020 | mg/L | | 23-AUG-22 | R5848238 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 23-AUG-22 | R5848238 |
| Uranium (U)-Total | 0.000599 | <DL | 0.0050 | mg/L | | 23-AUG-22 | R5848238 |
| Vanadium (V)-Total | 0.00110 | <T | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Zinc (Zn)-Total | 0.0060 | <T | 0.0030 | mg/L | | 23-AUG-22 | R5848238 |
| Zirconium (Zr)-Total | 0.000394 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0098 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000080 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00150 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0134 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | 0.0055 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | 0.0000010 | <DL | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 36.9 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00010 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | 0.000128 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00112 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.219 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0044 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 14.0 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.0611 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845316 |
| Molybdenum (Mo)-Dissolved | 0.000608 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00128 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.025 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 1.35 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00136 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000200 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 4.14 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|---------|----------|-----------|-----------|----------|
| L2728012-20 SW27_SW_20220809 Sampled By: Client on 10-AUG-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Sodium (Na)-Dissolved | 4.73 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0850 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 2.6 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00092 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.000537 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00066 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0030 | <T | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000264 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | 72 | | 10 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845312 |
| Oil and Grease, Total | 0.6 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-21 SW03_SW_20220809 Sampled By: Client on 10-AUG-22 @ 13:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.02 | | 0.10 | pH | | 17-AUG-22 | R5844680 |
| Temperature, Client Supplied | 22.69 | | 0 | Degree C | | 17-AUG-22 | R5844680 |
| Physical Tests | | | | | | | |
| Color, True | 158 | | 2.0 | CU | | 15-AUG-22 | R5843356 |
| Conductivity (EC) | 299 | | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | 149 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 7.90 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | 5.0 | | 3.0 | mg/L | | 18-AUG-22 | R5845819 |
| Total Dissolved Solids | 222 | | 20 | mg/L | | 18-AUG-22 | R5845860 |
| Turbidity | 4.26 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 138 | | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | 0.028 | <T | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 23-AUG-22 | |
| Chloride (Cl) | 7.21 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | 0.059 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | 0.010 | <DL | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | 1.29 | | 0.050 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845784 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-21 SW03_SW_20220809 | | | | | | | |
| Sampled By: Client on 10-AUG-22 @ 13:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Orthophosphate-Dissolved (as P) | 0.0327 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | 12.8 | | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | 0.0009 | <DL | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 31.9 | | 0.50 | mg/L | 10-AUG-22 | 23-AUG-22 | R5848176 |
| Total Organic Carbon | 29.9 | | 0.50 | mg/L | | 23-AUG-22 | R5848174 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0740 | | 0.0050 | mg/L | | 23-AUG-22 | R5848238 |
| Antimony (Sb)-Total | 0.000165 | <DL | 0.00060 | mg/L | | 23-AUG-22 | R5848238 |
| Arsenic (As)-Total | 0.00200 | <T | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Barium (Ba)-Total | 0.0197 | | 0.010 | mg/L | | 23-AUG-22 | R5848238 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Boron (B)-Total | 0.0135 | <DL | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Cadmium (Cd)-Total | 0.000006 | <DL | 0.000017 | mg/L | | 23-AUG-22 | R5848238 |
| Calcium (Ca)-Total | 37.7 | | 0.20 | mg/L | | 23-AUG-22 | R5848238 |
| Cesium (Cs)-Total | 0.0000065 | <DL | 0.000010 | mg/L | | 23-AUG-22 | R5848238 |
| Chromium (Cr)-Total | 0.00068 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Cobalt (Co)-Total | 0.000320 | <DL | 0.00050 | mg/L | | 23-AUG-22 | R5848238 |
| Copper (Cu)-Total | 0.00158 | <T | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Iron (Fe)-Total | 0.517 | | 0.020 | mg/L | | 23-AUG-22 | R5848238 |
| Lead (Pb)-Total | 0.00258 | <T | 0.000050 | mg/L | | 23-AUG-22 | R5848238 |
| Lithium (Li)-Total | 0.0050 | <DL | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Magnesium (Mg)-Total | 13.9 | | 0.020 | mg/L | | 23-AUG-22 | R5848238 |
| Manganese (Mn)-Total | 0.112 | | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844687 |
| Molybdenum (Mo)-Total | 0.000635 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Nickel (Ni)-Total | 0.00220 | <T | 0.0020 | mg/L | | 23-AUG-22 | R5848238 |
| Phosphorus (P)-Total | 0.065 | | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Potassium (K)-Total | 1.43 | | 0.50 | mg/L | | 23-AUG-22 | R5848238 |
| Rubidium (Rb)-Total | 0.00196 | | 0.00020 | mg/L | | 23-AUG-22 | R5848238 |
| Selenium (Se)-Total | 0.000245 | <T | 0.000050 | mg/L | | 23-AUG-22 | R5848238 |
| Silicon (Si)-Total | 4.14 | | 0.10 | mg/L | | 23-AUG-22 | R5848238 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 23-AUG-22 | R5848238 |
| Sodium (Na)-Total | 5.94 | | 0.10 | mg/L | | 23-AUG-22 | R5848238 |
| Strontium (Sr)-Total | 0.0997 | | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Sulfur (S)-Total | 4.6 | | 0.50 | mg/L | | 23-AUG-22 | R5848238 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 23-AUG-22 | R5848238 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-21 SW03_SW_20220809 | | | | | | | |
| Sampled By: Client on 10-AUG-22 @ 13:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 23-AUG-22 | R5848238 |
| Tin (Sn)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Titanium (Ti)-Total | 0.00259 | | 0.0020 | mg/L | | 23-AUG-22 | R5848238 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 23-AUG-22 | R5848238 |
| Uranium (U)-Total | 0.000508 | <DL | 0.0050 | mg/L | | 23-AUG-22 | R5848238 |
| Vanadium (V)-Total | 0.00110 | <T | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Zinc (Zn)-Total | 0.0020 | <DL | 0.0030 | mg/L | | 23-AUG-22 | R5848238 |
| Zirconium (Zr)-Total | 0.000424 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | 0.0146 | <T | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | 0.000165 | <DL | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.00197 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | 0.0182 | | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | 0.0105 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | 0.0000010 | <DL | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | 36.4 | | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00013 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | 0.000274 | <DL | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | 0.00138 | <T | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | 0.372 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | 0.00007 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0056 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 14.0 | | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | 0.102 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845316 |
| Molybdenum (Mo)-Dissolved | 0.000642 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | 0.00200 | <T | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | 0.055 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | 1.35 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | 0.00185 | | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | 0.000260 | <T | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | 3.95 | | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | 5.57 | | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | 0.0965 | | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | 4.8 | | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|---------|-------|-----------|-----------|----------|
| L2728012-21 SW03_SW_20220809 Sampled By: Client on 10-AUG-22 @ 13:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | 0.00094 | <DL | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | 0.000485 | <DL | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00096 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Zinc (Zn)-Dissolved | 0.0014 | <DL | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | 0.000374 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | 92 | | 10 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845312 |
| Oil and Grease, Total | 0.4 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2728012-22 TB_SW_20220809 Sampled By: Client on 10-AUG-22 @ 13:30 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 15-AUG-22 | R5843356 |
| Conductivity (EC) | <0.2 | <W | 1.0 | uS/cm | | 13-AUG-22 | R5842741 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 25-AUG-22 | |
| pH | 5.72 | | 0.10 | pH | | 13-AUG-22 | R5842741 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 18-AUG-22 | R5845819 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 18-AUG-22 | R5845860 |
| Turbidity | <0.10 | | 0.10 | NTU | | 15-AUG-22 | R5843007 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 15-AUG-22 | R5843276 |
| Alkalinity, Total (as CaCO3) | 0.6 | <DL | 2.0 | mg/L | | 13-AUG-22 | R5842741 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 17-AUG-22 | R5848081 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 14-AUG-22 | 15-AUG-22 | R5843767 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 15-AUG-22 | R5843767 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 15-AUG-22 | R5843767 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845784 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 14-AUG-22 | 16-AUG-22 | R5843603 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 15-AUG-22 | R5843767 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 17-AUG-22 | R5845043 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 10-AUG-22 | 23-AUG-22 | R5848176 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-22 TB_SW_20220809 Sampled By: Client on 10-AUG-22 @ 13:30 Matrix: SW | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 23-AUG-22 | R5848174 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | <0.0002 | <W | 0.0050 | mg/L | | 23-AUG-22 | R5848238 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00060 | mg/L | | 23-AUG-22 | R5848238 |
| Arsenic (As)-Total | <0.00001 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Barium (Ba)-Total | <0.00001 | <W | 0.010 | mg/L | | 23-AUG-22 | R5848238 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 23-AUG-22 | R5848238 |
| Calcium (Ca)-Total | <0.002 | <W | 0.20 | mg/L | | 23-AUG-22 | R5848238 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 23-AUG-22 | R5848238 |
| Chromium (Cr)-Total | 0.00016 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 23-AUG-22 | R5848238 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Iron (Fe)-Total | <0.0005 | <W | 0.020 | mg/L | | 23-AUG-22 | R5848238 |
| Lead (Pb)-Total | <0.00001 | <W | 0.000050 | mg/L | | 23-AUG-22 | R5848238 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Magnesium (Mg)-Total | <0.0002 | <W | 0.020 | mg/L | | 23-AUG-22 | R5848238 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 17-AUG-22 | R5844687 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Nickel (Ni)-Total | <0.00002 | <W | 0.0020 | mg/L | | 23-AUG-22 | R5848238 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 23-AUG-22 | R5848238 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 23-AUG-22 | R5848238 |
| Rubidium (Rb)-Total | <0.000002 | <W | 0.00020 | mg/L | | 23-AUG-22 | R5848238 |
| Selenium (Se)-Total | <0.000005 | <W | 0.000050 | mg/L | | 23-AUG-22 | R5848238 |
| Silicon (Si)-Total | 0.004 | <DL | 0.10 | mg/L | | 23-AUG-22 | R5848238 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 23-AUG-22 | R5848238 |
| Sodium (Na)-Total | <0.005 | <W | 0.10 | mg/L | | 23-AUG-22 | R5848238 |
| Strontium (Sr)-Total | <0.000005 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 23-AUG-22 | R5848238 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 23-AUG-22 | R5848238 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 23-AUG-22 | R5848238 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Titanium (Ti)-Total | <0.00001 | <W | 0.0020 | mg/L | | 23-AUG-22 | R5848238 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 23-AUG-22 | R5848238 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 23-AUG-22 | R5848238 |
| Vanadium (V)-Total | <0.00005 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Zinc (Zn)-Total | <0.0005 | <W | 0.0030 | mg/L | | 23-AUG-22 | R5848238 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2728012-22 TB_SW_20220809 | | | | | | | |
| Sampled By: Client on 10-AUG-22 @ 13:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Zirconium (Zr)-Total | <0.000002 | <W | 0.0010 | mg/L | | 23-AUG-22 | R5848238 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 24-AUG-22 | R5848304 |
| Aluminum (Al)-Dissolved | <0.0002 | <W | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 24-AUG-22 | R5848532 |
| Arsenic (As)-Dissolved | 0.0000040 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Barium (Ba)-Dissolved | <0.000005 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Boron (B)-Dissolved | <0.0005 | <W | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 24-AUG-22 | R5848532 |
| Calcium (Ca)-Dissolved | <0.002 | <W | 0.20 | mg/L | | 24-AUG-22 | R5848532 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 24-AUG-22 | R5848532 |
| Chromium (Cr)-Dissolved | 0.00010 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 24-AUG-22 | R5848532 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Iron (Fe)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Lithium (Li)-Dissolved | 0.0002 | <DL | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Magnesium (Mg)-Dissolved | 0.0005 | <DL | 0.020 | mg/L | | 24-AUG-22 | R5848532 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 18-AUG-22 | R5845316 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 24-AUG-22 | R5848532 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 24-AUG-22 | R5848532 |
| Silicon (Si)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 24-AUG-22 | R5848532 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Sodium (Na)-Dissolved | <0.005 | <W | 0.10 | mg/L | | 24-AUG-22 | R5848532 |
| Strontium (Sr)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 24-AUG-22 | R5848532 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 24-AUG-22 | R5848532 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 24-AUG-22 | R5848532 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 24-AUG-22 | R5848532 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 24-AUG-22 | R5848532 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.0050 | mg/L | | 24-AUG-22 | R5848532 |
| Vanadium (V)-Dissolved | 0.00004 | <DL | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|--------|-------|-----------|-----------|----------|
| L2728012-22 TB_SW_20220809 Sampled By: Client on 10-AUG-22 @ 13:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 24-AUG-22 | R5848532 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 24-AUG-22 | R5848532 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-AUG-22 | R5846171 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 13-AUG-22 | 18-AUG-22 | R5845312 |
| Oil and Grease, Total | 1.2 | <DL | 5.0 | mg/L | 19-AUG-22 | 19-AUG-22 | R5846002 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------|---------------------------------|-----------|--|
| Duplicate | pH | DUP-H,J | L2728012-22 |
| Matrix Spike | Calcium (Ca)-Dissolved | MS-B | L2728012-1, -10, -11, -12, -14, -16, -18, -19, -20, -21, -22, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Dissolved | MS-B | L2728012-1, -10, -11, -12, -14, -16, -18, -19, -20, -21, -22, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Potassium (K)-Dissolved | MS-B | L2728012-1, -10, -11, -12, -14, -16, -18, -19, -20, -21, -22, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Dissolved | MS-B | L2728012-1, -10, -11, -12, -14, -16, -18, -19, -20, -21, -22, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Dissolved | MS-B | L2728012-1, -10, -11, -12, -14, -16, -18, -19, -20, -21, -22, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sulfur (S)-Dissolved | MS-B | L2728012-1, -10, -11, -12, -14, -16, -18, -19, -20, -21, -22, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Aluminum (Al)-Total | MS-B | L2728012-1, -10, -11, -12, -14, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Barium (Ba)-Total | MS-B | L2728012-1, -10, -11, -12, -14, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Total | MS-B | L2728012-1, -10, -11, -12, -14, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Total | MS-B | L2728012-1, -10, -11, -12, -14, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Manganese (Mn)-Total | MS-B | L2728012-1, -10, -11, -12, -14, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Total | MS-B | L2728012-1, -10, -11, -12, -14, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Total | MS-B | L2728012-1, -10, -11, -12, -14, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Orthophosphate-Dissolved (as P) | MS-B | L2728012-21, -22 |
| Matrix Spike | Total Organic Carbon | MS-B | L2728012-1, -3, -4, -5, -6 |
| Matrix Spike | Total Organic Carbon | MS-B | L2728012-21, -22 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| DLIS | Detection Limit Adjusted: Insufficient Sample |
| DTC | Dissolved concentration exceeds total. Results were confirmed by re-analysis. |
| DUP-H,J | Duplicate results outside ALS DQO, due to sample heterogeneity. Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| NDIS | No Data: Insufficient Sample |
| NDIS | No Data: Insufficient Sample |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|----------|---|--|
| ACY-MISA-TB | Effluent | Acidity (as CaCO ₃) | APHA 2310 B-POTENTIOMETRIC TITRATION |
| Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample. | | | |
| ALK-MISA-TB | Effluent | Alkalinity, Total (as CaCO ₃) | APHA 2320 B-Auto-Pot. Titration |
| This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. | | | |
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
| All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation. | | | |
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
| This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis. | | | |
| CN-T-MISA-CFA-WT | Effluent | Total Cyanide by CFA | ISO 14403-2:2012 (modified) |
| This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and | | | |

Reference Information

CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.

Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

| | | | |
|--------------------|----------|--------------------------------------|---------------------------------|
| CN-WAD-MISA-CFA-WT | Effluent | Weak Acid Dissociable Cyanide by CFA | APHA 4500-CN CYANIDE (modified) |
|--------------------|----------|--------------------------------------|---------------------------------|

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

| | | | |
|--------|-------|------------------------|------------|
| COD-TB | Water | Chemical Oxygen Demand | APHA 5220D |
|--------|-------|------------------------|------------|

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

| | | | |
|-----------|-------|--------------|-------------|
| COLOUR-TB | Water | Colour, True | APHA 2120 C |
|-----------|-------|--------------|-------------|

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

| | | | |
|--------|----------|-----------------------------------|--------------------------|
| DOC-WT | Effluent | Dissolved Organic Carbon for MISA | APHA 5310 B-Instrumental |
|--------|----------|-----------------------------------|--------------------------|

| | | | |
|------------|----------|-------------------|-----------------------|
| EC-MISA-TB | Effluent | Conductivity (EC) | APHA 2510 B-ELECTRODE |
|------------|----------|-------------------|-----------------------|

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

| | | | |
|-----------|-------|-------------------------|-----------------|
| F-IC-N-TB | Water | Fluoride in Water by IC | EPA 300.1 (mod) |
|-----------|-------|-------------------------|-----------------|

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

| | | | |
|------------------|----------|----------------------------------|-------------|
| HARDNESS-CALC-TB | Effluent | Hardness (as CaCO ₃) | CALCULATION |
|------------------|----------|----------------------------------|-------------|

| | | | |
|-----------|----------|---------------------------------|-------------|
| HG-DIS-WT | Effluent | Mercury (Hg)-Dissolved for MISA | SW846 7470A |
|-----------|----------|---------------------------------|-------------|

| | | | |
|-----------|----------|-----------------------------|-------------|
| HG-TOT-WT | Effluent | Mercury (Hg)-Total for MISA | SW846 7470A |
|-----------|----------|-----------------------------|-------------|

| | | | |
|---------------|----------|----------------------------------|------------------------|
| MET-D-MISA-TB | Effluent | Dissolved Metals in Water (MISA) | APHA 3030B/6020B (mod) |
|---------------|----------|----------------------------------|------------------------|

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

| | | | |
|---------------|----------|------------------------------|-----------------------|
| MET-T-MISA-TB | Effluent | Total Metals in Water (MISA) | EPA 200.2/6020B (mod) |
|---------------|----------|------------------------------|-----------------------|

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

| | | | |
|---------------|----------|------------------------------|--|
| NH3-MISA-F-TB | Effluent | Ammonia by Discrete Analyzer | catnr 157/158 062217/99321057 (modified) |
|---------------|----------|------------------------------|--|

Ammonia is determined by Flow-injection analysis with fluorescence detection

| | | | |
|-------------------|----------|--------------------|-------------|
| NH3-UNION-CALC-TB | Effluent | Un-ionized ammonia | Calculation |
|-------------------|----------|--------------------|-------------|

| | | | |
|----------------|----------|------------------------|-----------------|
| NO2-MISA-IC-TB | Effluent | Nitrite in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|----------------|----------|------------------------|-----------------|
| NO3-MISA-IC-TB | Effluent | Nitrate in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|------------|----------|--------------------------------|--------------------------------|
| OGG-TOT-WT | Effluent | Oil and Grease, Total for MISA | APHA 5520 B-Hexane Gravimetric |
|------------|----------|--------------------------------|--------------------------------|

| | | | |
|--------------|-------|----|---------------------------|
| PH-CLIENT-TB | Water | pH | Result supplied by Client |
|--------------|-------|----|---------------------------|

| | | | |
|------------|----------|----|-----------------------|
| PH-MISA-TB | Effluent | pH | APHA 4500-H-ELECTRODE |
|------------|----------|----|-----------------------|

Reference Information

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

| | | | |
|--|----------|------------------------------|---------------------------------------|
| PO4-DO-COL-TB | Water | Dissolved Orthophosphate | APHA 4500-P B, F, G (modified) |
| Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection. | | | |
| RA226-MMER-BE | Water | Radium 226 | Radium Isotopes by Alpha Spectrometry |
| Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry. | | | |
| SO4-MISA-IC-TB | Effluent | Sulfate in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| TDS-MISA-TB | Effluent | Total Dissolved Solids | APHA 2540 C (modified) |
| Aqueous matrices are analyzed using gravimetry and evaporation | | | |
| TEMP-CLIENT-TB | Water | Temperature | Result supplied by Client |
| TKN-F-TB | Water | TKN in Water by Fluorescence | catnr 157/158, 062818/99334821 |
| Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection | | | |
| TOC-WT | Water | Total Organic Carbon | APHA 5310B |
| Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector. | | | |
| TSS-MISA-TB | Effluent | Total Suspended Solids | APHA 2540 D (modified) |
| Aqueous matrices are analyzed using gravimetry | | | |
| TURBIDITY-TB | Water | Turbidity | APHA 2130 B-Nephelometer |
| Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle. | | | |

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |
| BE | BUREAU VERITAS - MISSISSAUGA, ONTARIO, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Page 1 of 30

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| BOD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5845059 | | | | | | | |
| WG3756872-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 93.8 | | % | | 85-115 | 13-AUG-22 |
| WG3756872-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 13-AUG-22 |
| Batch | R5846171 | | | | | | | |
| WG3756974-3 | DUP | L2727995-2 | | | | | | |
| Biochemical Oxygen Demand | | 5.4 | 5.1 | | mg/L | 5.7 | 30 | 14-AUG-22 |
| WG3756974-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 100.3 | | % | | 85-115 | 14-AUG-22 |
| WG3756974-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 14-AUG-22 |
| CL-L-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5843767 | | | | | | | |
| WG3756980-3 | DUP | L2728012-11 | | | | | | |
| Chloride (Cl) | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 20 | 15-AUG-22 |
| WG3756981-3 | DUP | L2728067-9 | | | | | | |
| Chloride (Cl) | | 0.23 | 0.24 | | mg/L | 4.9 | 20 | 15-AUG-22 |
| WG3756980-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 104.4 | | % | | 90-110 | 15-AUG-22 |
| WG3756981-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 103.8 | | % | | 90-110 | 15-AUG-22 |
| WG3756980-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 15-AUG-22 |
| WG3756981-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 15-AUG-22 |
| WG3756980-4 | MS | L2728012-12 | | | | | | |
| Chloride (Cl) | | | 100.0 | | % | | 75-125 | 15-AUG-22 |
| WG3756981-4 | MS | L2728067-10 | | | | | | |
| Chloride (Cl) | | | 101.9 | | % | | 75-125 | 15-AUG-22 |
| Batch | R5844808 | | | | | | | |
| WG3757554-3 | DUP | L2728189-5 | | | | | | |
| Chloride (Cl) | | 0.47 | 0.50 | | mg/L | 6.0 | 20 | 17-AUG-22 |
| WG3757554-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 104.6 | | % | | 90-110 | 17-AUG-22 |
| WG3757554-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 17-AUG-22 |
| WG3757554-4 | MS | L2728189-6 | | | | | | |
| Chloride (Cl) | | | 105.3 | | % | | 75-125 | 17-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| COD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5845312 | | | | | | | |
| WG3756919-3 | DUP | L2728012-21 | | | | | | |
| Chemical Oxygen Demand | | 92 | 95 | | mg/L | 3.1 | 20 | 18-AUG-22 |
| WG3756919-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 103.4 | | % | | 85-115 | 18-AUG-22 |
| WG3756919-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 18-AUG-22 |
| WG3756919-4 | MS | L2728012-22 | | | | | | |
| Chemical Oxygen Demand | | | 110.4 | | % | | 75-125 | 18-AUG-22 |
| Batch | R5846198 | | | | | | | |
| WG3756918-3 | DUP | L2727995-1 | | | | | | |
| Chemical Oxygen Demand | | 17 | 27 | J | mg/L | 10 | 20 | 19-AUG-22 |
| WG3756918-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 112.0 | | % | | 85-115 | 19-AUG-22 |
| WG3756918-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 19-AUG-22 |
| WG3756918-4 | MS | L2727995-2 | | | | | | |
| Chemical Oxygen Demand | | | 103.2 | | % | | 75-125 | 19-AUG-22 |
| COLOUR-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5843356 | | | | | | | |
| WG3756972-3 | DUP | L2728192-4 | | | | | | |
| Color, True | | 6.4 | 6.9 | | CU | 6.5 | 20 | 15-AUG-22 |
| WG3756972-2 | LCS | | | | | | | |
| Color, True | | | 99.8 | | % | | 85-115 | 15-AUG-22 |
| WG3756972-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 15-AUG-22 |
| Batch | R5843417 | | | | | | | |
| WG3756970-3 | DUP | L2728012-20 | | | | | | |
| Color, True | | 123 | 123 | | CU | 0.0 | 20 | 16-AUG-22 |
| WG3756970-2 | LCS | | | | | | | |
| Color, True | | | 99.8 | | % | | 85-115 | 16-AUG-22 |
| WG3756970-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 16-AUG-22 |
| F-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5843767 | | | | | | | |
| WG3756980-3 | DUP | L2728012-11 | | | | | | |
| Fluoride (F) | | <0.020 | <0.020 | RPD-NA | mg/L | N/A | 20 | 15-AUG-22 |
| WG3756981-3 | DUP | L2728067-9 | | | | | | |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| F-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5843767 | | | | | | | |
| WG3756981-3 | DUP | L2728067-9 | | | | | | |
| Fluoride (F) | | <0.020 | <0.020 | RPD-NA | mg/L | N/A | 20 | 15-AUG-22 |
| WG3756980-2 | LCS | | | | | | | |
| Fluoride (F) | | | 104.4 | | % | | 90-110 | 15-AUG-22 |
| WG3756981-2 | LCS | | | | | | | |
| Fluoride (F) | | | 109.2 | | % | | 90-110 | 15-AUG-22 |
| WG3756980-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 15-AUG-22 |
| WG3756981-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 15-AUG-22 |
| WG3756981-4 | MS | L2728067-10 | | | | | | |
| Fluoride (F) | | | 105.7 | | % | | 75-125 | 15-AUG-22 |
| PO4-DO-COL-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5843603 | | | | | | | |
| WG3756976-3 | DUP | L2728012-19 | | | | | | |
| Orthophosphate-Dissolved (as P) | | 0.0328 | 0.0360 | | mg/L | 9.2 | 20 | 16-AUG-22 |
| WG3756977-3 | DUP | L2728190-4 | | | | | | |
| Orthophosphate-Dissolved (as P) | | 0.322 | 0.320 | | mg/L | 0.5 | 20 | 16-AUG-22 |
| WG3756976-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 101.3 | | % | | 80-120 | 16-AUG-22 |
| WG3756977-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 101.2 | | % | | 80-120 | 16-AUG-22 |
| WG3756976-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0010 | | mg/L | | 0.001 | 16-AUG-22 |
| WG3756977-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0010 | | mg/L | | 0.001 | 16-AUG-22 |
| WG3756976-4 | MS | L2728012-20 | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 85.5 | | % | | 70-130 | 16-AUG-22 |
| WG3756977-4 | MS | L2728190-5 | | | | | | |
| Orthophosphate-Dissolved (as P) | | | N/A | MS-B | % | | - | 16-AUG-22 |
| TKN-F-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5845784 | | | | | | | |
| WG3756912-3 | DUP | L2728012-21 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.29 | 1.27 | | mg/L | 1.9 | 20 | 18-AUG-22 |
| WG3756912-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 104.3 | | % | | 75-125 | 18-AUG-22 |
| WG3756912-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 18-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| TKN-F-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5845784 | | | | | | | |
| WG3756912-4 MS | | L2728012-22 | | | | | | |
| Total Kjeldahl Nitrogen | | | 124.0 | | % | | 70-130 | 18-AUG-22 |
| Batch | R5848503 | | | | | | | |
| WG3757901-3 DUP | | L2727776-1 | | | | | | |
| Total Kjeldahl Nitrogen | | 0.422 | 0.420 | | mg/L | 0.3 | 20 | 23-AUG-22 |
| WG3757902-3 DUP | | L2728012-9 | | | | | | |
| Total Kjeldahl Nitrogen | | 0.998 | 0.944 | | mg/L | 5.6 | 20 | 23-AUG-22 |
| WG3757901-2 LCS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 102.1 | | % | | 75-125 | 23-AUG-22 |
| WG3757902-2 LCS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 96.5 | | % | | 75-125 | 23-AUG-22 |
| WG3757901-1 MB | | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 23-AUG-22 |
| WG3757902-1 MB | | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 23-AUG-22 |
| WG3757901-4 MS | | L2727776-2 | | | | | | |
| Total Kjeldahl Nitrogen | | | 108.1 | | % | | 70-130 | 23-AUG-22 |
| WG3757902-4 MS | | L2728012-10 | | | | | | |
| Total Kjeldahl Nitrogen | | | 127.4 | | % | | 70-130 | 23-AUG-22 |
| TOC-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5845801 | | | | | | | |
| WG3757852-3 DUP | | L2728012-6 | | | | | | |
| Total Organic Carbon | | 43.1 | 43.5 | | mg/L | 0.8 | 20 | 18-AUG-22 |
| WG3757852-2 LCS | | | | | | | | |
| Total Organic Carbon | | | 108.1 | | % | | 80-120 | 18-AUG-22 |
| WG3757852-1 MB | | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 18-AUG-22 |
| WG3757852-4 MS | | L2728012-6 | | | | | | |
| Total Organic Carbon | | | N/A | MS-B | % | | - | 18-AUG-22 |
| Batch | R5846982 | | | | | | | |
| WG3758161-3 DUP | | L2727952-6 | | | | | | |
| Total Organic Carbon | | 3.60 | 3.90 | | mg/L | 8.0 | 20 | 19-AUG-22 |
| WG3758161-2 LCS | | | | | | | | |
| Total Organic Carbon | | | 89.7 | | % | | 80-120 | 19-AUG-22 |
| WG3758161-1 MB | | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 19-AUG-22 |
| WG3758161-4 MS | | L2727952-6 | | | | | | |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed | |
|--|--------|-----------|---------|-----------|-------|--------|--------|-----------|-----------|
| ACY-MISA-TB Effluent | | | | | | | | | |
| Batch R5843276 | | | | | | | | | |
| WG3756964-1 MB | | | | | | | | | |
| Acidity (as CaCO3) | | | 2.0 | | mg/L | | 3 | 15-AUG-22 | |
| ALK-MISA-TB Effluent | | | | | | | | | |
| Batch R5842741 | | | | | | | | | |
| WG3756926-3 DUP L2728012-8 | | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 121 | | mg/L | 0.3 | 20 | 13-AUG-22 | |
| Alkalinity, Phenolphthalein | | | <0.2 | RPD-NA | mg/L | N/A | 25 | 13-AUG-22 | |
| WG3756923-2 LCS | | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 99.1 | | % | | 85-115 | 13-AUG-22 | |
| WG3756926-2 LCS | | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 98.8 | | % | | 85-115 | 13-AUG-22 | |
| WG3756932-2 LCS | | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 98.2 | | % | | 85-115 | 13-AUG-22 | |
| WG3756923-1 MB | | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 0.4 | | mg/L | | 2 | 13-AUG-22 | |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 13-AUG-22 | |
| WG3756926-1 MB | | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | <0.2 | | mg/L | | 2 | 13-AUG-22 | |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 13-AUG-22 | |
| WG3756932-1 MB | | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 0.2 | | mg/L | | 2 | 13-AUG-22 | |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 13-AUG-22 | |
| CN-FREE-MISA-CFA-WT Effluent | | | | | | | | | |
| Batch R5845043 | | | | | | | | | |
| WG3757808-3 DUP L2728067-1 | | | | | | | | | |
| Cyanide, Free | | | 0.0006 | 0.0001 | mg/L | RPD-NA | N/A | 20 | 17-AUG-22 |
| COMMENTS: PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | | | |
| WG3757808-7 DUP L2728012-9 | | | | | | | | | |
| Cyanide, Free | | | <0.0001 | 0.0001 | mg/L | RPD-NA | N/A | 20 | 17-AUG-22 |
| COMMENTS: PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | | | |
| WG3757808-2 LCS | | | | | | | | | |
| Cyanide, Free | | | 101.7 | | % | | 80-120 | 17-AUG-22 | |
| COMMENTS: PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | | | |
| WG3757808-6 LCS | | | | | | | | | |
| Cyanide, Free | | | 100.9 | | % | | 80-120 | 17-AUG-22 | |
| COMMENTS: PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | | | |
| WG3757808-1 MB | | | | | | | | | |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|--------------------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| CN-WAD-MISA-CFA-WT | | Effluent | | | | | | |
| Batch | R5845043 | | | | | | | |
| WG3757808-6 | LCS | | | | | | | |
| | Cyanide, Weak Acid Diss | | 101.7 | | % | | 80-120 | 17-AUG-22 |
| WG3757808-1 | MB | | | | | | | |
| | Cyanide, Weak Acid Diss | | <0.0001 | | mg/L | | 0.002 | 17-AUG-22 |
| WG3757808-5 | MB | | | | | | | |
| | Cyanide, Weak Acid Diss | | <0.0001 | | mg/L | | 0.002 | 17-AUG-22 |
| WG3757808-4 | MS | L2728067-1 | | | | | | |
| | Cyanide, Weak Acid Diss | | 104.4 | | % | | 75-125 | 17-AUG-22 |
| WG3757808-8 | MS | L2728012-9 | | | | | | |
| | Cyanide, Weak Acid Diss | | 101.1 | | % | | 75-125 | 17-AUG-22 |
| DOC-WT | | Effluent | | | | | | |
| Batch | R5848176 | | | | | | | |
| WG3757786-3 | DUP | L2728003-12 | | | | | | |
| | Dissolved Organic Carbon | 18.2 | 19.1 | | mg/L | 4.5 | 25 | 23-AUG-22 |
| WG3757786-2 | LCS | | | | | | | |
| | Dissolved Organic Carbon | | 94.9 | | % | | 70-130 | 23-AUG-22 |
| WG3757786-1 | MB | | | | | | | |
| | Dissolved Organic Carbon | | <0.50 | | mg/L | | 0.5 | 23-AUG-22 |
| EC-MISA-TB | | Effluent | | | | | | |
| Batch | R5842741 | | | | | | | |
| WG3756923-3 | DUP | L2727953-21 | | | | | | |
| | Conductivity (EC) | 366 | 361 | | uS/cm | 1.4 | 10 | 13-AUG-22 |
| WG3756926-3 | DUP | L2728012-8 | | | | | | |
| | Conductivity (EC) | 252 | 250 | | uS/cm | 0.8 | 10 | 13-AUG-22 |
| WG3756932-3 | DUP | L2727953-35 | | | | | | |
| | Conductivity (EC) | 0.2 | 0.2 | RPD-NA | uS/cm | N/A | 10 | 13-AUG-22 |
| WG3756923-2 | LCS | | | | | | | |
| | Conductivity (EC) | | 96.0 | | % | | 90-110 | 13-AUG-22 |
| WG3756926-2 | LCS | | | | | | | |
| | Conductivity (EC) | | 97.1 | | % | | 90-110 | 13-AUG-22 |
| WG3756932-2 | LCS | | | | | | | |
| | Conductivity (EC) | | 97.3 | | % | | 90-110 | 13-AUG-22 |
| WG3756923-1 | MB | | | | | | | |
| | Conductivity (EC) | | <0.2 | | uS/cm | | 2 | 13-AUG-22 |
| WG3756926-1 | MB | | | | | | | |
| | Conductivity (EC) | | <0.2 | | uS/cm | | 2 | 13-AUG-22 |
| WG3756932-1 | MB | | | | | | | |
| | Conductivity (EC) | | <0.2 | | uS/cm | | 2 | 13-AUG-22 |



Quality Control Report

Workorder: L2728012

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|------------|--------------------|-----------|-----------|-------|-----|----------|-----------|
| EC-MISA-TB | | Effluent | | | | | | |
| Batch R5846120 | | | | | | | | |
| WG3758345-2 | LCS | | | | | | | |
| Conductivity (EC) | | | 98.2 | | % | | 90-110 | 15-AUG-22 |
| WG3758345-1 | MB | | | | | | | |
| Conductivity (EC) | | | <0.2 | | uS/cm | | 2 | 15-AUG-22 |
| HG-DIS-WT | | Effluent | | | | | | |
| Batch R5845315 | | | | | | | | |
| WG3757914-3 | DUP | L2728003-9 | | | | | | |
| Mercury (Hg)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 18-AUG-22 |
| WG3757914-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 92.7 | | % | | 80-120 | 18-AUG-22 |
| WG3757914-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.000005 | 18-AUG-22 |
| WG3757914-4 | MS | L2728003-12 | | | | | | |
| Mercury (Hg)-Dissolved | | | 102.7 | | % | | 70-130 | 18-AUG-22 |
| Batch R5845316 | | | | | | | | |
| WG3757919-3 | DUP | L2728012-16 | | | | | | |
| Mercury (Hg)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 18-AUG-22 |
| WG3757919-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 93.9 | | % | | 80-120 | 18-AUG-22 |
| WG3757919-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.000005 | 18-AUG-22 |
| WG3757919-4 | MS | L2728012-18 | | | | | | |
| Mercury (Hg)-Dissolved | | | 85.7 | | % | | 70-130 | 18-AUG-22 |
| HG-TOT-WT | | Effluent | | | | | | |
| Batch R5844686 | | | | | | | | |
| WG3757757-3 | DUP | L2728003-9 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 17-AUG-22 |
| WG3757757-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 105.0 | | % | | 80-120 | 17-AUG-22 |
| WG3757757-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.000005 | 17-AUG-22 |
| WG3757757-4 | MS | L2728003-12 | | | | | | |
| Mercury (Hg)-Total | | | 102.1 | | % | | 70-130 | 17-AUG-22 |
| Batch R5844687 | | | | | | | | |
| WG3757760-3 | DUP | L2728012-18 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 17-AUG-22 |
| WG3757760-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|------------|--------------------|-----------|-----------|-------|-----|----------|-----------|
| HG-TOT-WT | | Effluent | | | | | | |
| Batch R5844687 | | | | | | | | |
| WG3757760-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 104.0 | | % | | 80-120 | 17-AUG-22 |
| WG3757760-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.000005 | 17-AUG-22 |
| WG3757760-4 | MS | L2728012-19 | | | | | | |
| Mercury (Hg)-Total | | | 96.3 | | % | | 70-130 | 17-AUG-22 |
| Batch R5847096 | | | | | | | | |
| WG3758664-3 | DUP | L2728012-8 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| WG3758664-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 99.8 | | % | | 80-120 | 22-AUG-22 |
| WG3758664-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.000005 | 22-AUG-22 |
| WG3758664-4 | MS | L2728067-3 | | | | | | |
| Mercury (Hg)-Total | | | 98.0 | | % | | 70-130 | 22-AUG-22 |
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch R5848532 | | | | | | | | |
| WG3759158-11 | DUP | L2728067-1 | | | | | | |
| Aluminum (Al)-Dissolved | | 0.0192 | 0.0184 | | mg/L | 3.9 | 20 | 24-AUG-22 |
| Antimony (Sb)-Dissolved | | 0.00403 | 0.00398 | | mg/L | 1.1 | 20 | 24-AUG-22 |
| Arsenic (As)-Dissolved | | 0.189 | 0.187 | | mg/L | 0.9 | 20 | 24-AUG-22 |
| Barium (Ba)-Dissolved | | 0.00162 | 0.00162 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Beryllium (Be)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Bismuth (Bi)-Dissolved | | 0.000004 | 0.000004 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Boron (B)-Dissolved | | 0.0425 | 0.0470 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Cadmium (Cd)-Dissolved | | 0.0000090 | 0.0000115 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Calcium (Ca)-Dissolved | | 17.0 | 16.8 | | mg/L | 1.6 | 20 | 24-AUG-22 |
| Cesium (Cs)-Dissolved | | 0.0000890 | 0.0000880 | | mg/L | 1.2 | 20 | 24-AUG-22 |
| Chromium (Cr)-Dissolved | | 0.0215 | 0.0216 | | mg/L | 0.5 | 20 | 24-AUG-22 |
| Cobalt (Co)-Dissolved | | 0.000038 | 0.000040 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Copper (Cu)-Dissolved | | 0.0214 | 0.0213 | | mg/L | 0.4 | 20 | 24-AUG-22 |
| Iron (Fe)-Dissolved | | 0.0020 | 0.0020 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Lead (Pb)-Dissolved | | 0.00002 | 0.00001 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Lithium (Li)-Dissolved | | 0.0062 | 0.0066 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Magnesium (Mg)-Dissolved | | 0.695 | 0.685 | | mg/L | 1.4 | 20 | 24-AUG-22 |



Quality Control Report

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5848532 | | | | | | | |
| WG3759158-11 | DUP | L2728067-1 | | | | | | |
| Manganese (Mn)-Dissolved | | 0.00300 | 0.00298 | | mg/L | 0.7 | 20 | 24-AUG-22 |
| Molybdenum (Mo)-Dissolved | | 0.00126 | 0.00123 | | mg/L | 2.6 | 20 | 24-AUG-22 |
| Nickel (Ni)-Dissolved | | 0.00008 | 0.00010 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Phosphorus (P)-Dissolved | | 0.010 | 0.010 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Potassium (K)-Dissolved | | 1.38 | 1.37 | | mg/L | 0.8 | 20 | 24-AUG-22 |
| Rubidium (Rb)-Dissolved | | 0.00110 | 0.000942 | | mg/L | 15 | 20 | 24-AUG-22 |
| Selenium (Se)-Dissolved | | 0.00152 | 0.00152 | | mg/L | 0.2 | 20 | 24-AUG-22 |
| Silicon (Si)-Dissolved | | 1.09 | 1.09 | | mg/L | 0.0 | 20 | 24-AUG-22 |
| Silver (Ag)-Dissolved | | 0.0000040 | 0.0000040 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Sodium (Na)-Dissolved | | 6.02 | 5.99 | | mg/L | 0.5 | 20 | 24-AUG-22 |
| Strontium (Sr)-Dissolved | | 0.107 | 0.107 | | mg/L | 0.4 | 20 | 24-AUG-22 |
| Sulfur (S)-Dissolved | | 10.4 | 10.6 | | mg/L | 2.8 | 20 | 24-AUG-22 |
| Tellurium (Te)-Dissolved | | 0.00005 | 0.00007 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Thallium (Tl)-Dissolved | | <0.000002 | 0.000002 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Thorium (Th)-Dissolved | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Tin (Sn)-Dissolved | | 0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Titanium (Ti)-Dissolved | | 0.00008 | 0.00008 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Tungsten (W)-Dissolved | | 0.000154 | 0.000146 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Uranium (U)-Dissolved | | 0.000181 | 0.000188 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Vanadium (V)-Dissolved | | 0.00006 | 0.00006 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| Zinc (Zn)-Dissolved | | 0.0218 | 0.0220 | | mg/L | 1.0 | 20 | 24-AUG-22 |
| Zirconium (Zr)-Dissolved | | 0.000008 | 0.000010 | RPD-NA | mg/L | N/A | 20 | 24-AUG-22 |
| WG3759158-10 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 97.7 | | % | | 80-120 | 24-AUG-22 |
| Antimony (Sb)-Dissolved | | | 100.4 | | % | | 80-120 | 24-AUG-22 |
| Arsenic (As)-Dissolved | | | 102.7 | | % | | 80-120 | 24-AUG-22 |
| Barium (Ba)-Dissolved | | | 103.0 | | % | | 80-120 | 24-AUG-22 |
| Beryllium (Be)-Dissolved | | | 101.4 | | % | | 80-120 | 24-AUG-22 |
| Bismuth (Bi)-Dissolved | | | 97.2 | | % | | 80-120 | 24-AUG-22 |
| Boron (B)-Dissolved | | | 99.0 | | % | | 80-120 | 24-AUG-22 |
| Cadmium (Cd)-Dissolved | | | 100.4 | | % | | 80-120 | 24-AUG-22 |
| Calcium (Ca)-Dissolved | | | 97.6 | | % | | 80-120 | 24-AUG-22 |
| Cesium (Cs)-Dissolved | | | 105.3 | | % | | 80-120 | 24-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5848532 | | | | | | | |
| WG3759158-10 LCS | | | | | | | | |
| Chromium (Cr)-Dissolved | | | 98.4 | | % | | 80-120 | 24-AUG-22 |
| Cobalt (Co)-Dissolved | | | 97.8 | | % | | 80-120 | 24-AUG-22 |
| Copper (Cu)-Dissolved | | | 96.6 | | % | | 80-120 | 24-AUG-22 |
| Iron (Fe)-Dissolved | | | 103.3 | | % | | 80-120 | 24-AUG-22 |
| Lead (Pb)-Dissolved | | | 99.7 | | % | | 80-120 | 24-AUG-22 |
| Lithium (Li)-Dissolved | | | 104.3 | | % | | 80-120 | 24-AUG-22 |
| Magnesium (Mg)-Dissolved | | | 99.0 | | % | | 80-120 | 24-AUG-22 |
| Manganese (Mn)-Dissolved | | | 97.8 | | % | | 80-120 | 24-AUG-22 |
| Molybdenum (Mo)-Dissolved | | | 93.3 | | % | | 80-120 | 24-AUG-22 |
| Nickel (Ni)-Dissolved | | | 98.9 | | % | | 80-120 | 24-AUG-22 |
| Phosphorus (P)-Dissolved | | | 98.6 | | % | | 70-130 | 24-AUG-22 |
| Potassium (K)-Dissolved | | | 101.8 | | % | | 80-120 | 24-AUG-22 |
| Rubidium (Rb)-Dissolved | | | 101.7 | | % | | 80-120 | 24-AUG-22 |
| Selenium (Se)-Dissolved | | | 101.0 | | % | | 80-120 | 24-AUG-22 |
| Silicon (Si)-Dissolved | | | 102.5 | | % | | 60-140 | 24-AUG-22 |
| Silver (Ag)-Dissolved | | | 92.9 | | % | | 80-120 | 24-AUG-22 |
| Sodium (Na)-Dissolved | | | 100.7 | | % | | 80-120 | 24-AUG-22 |
| Strontium (Sr)-Dissolved | | | 97.5 | | % | | 80-120 | 24-AUG-22 |
| Sulfur (S)-Dissolved | | | 105.8 | | % | | 80-120 | 24-AUG-22 |
| Tellurium (Te)-Dissolved | | | 106.1 | | % | | 80-120 | 24-AUG-22 |
| Thallium (Tl)-Dissolved | | | 98.9 | | % | | 80-120 | 24-AUG-22 |
| Thorium (Th)-Dissolved | | | 94.9 | | % | | 80-120 | 24-AUG-22 |
| Tin (Sn)-Dissolved | | | 101.0 | | % | | 80-120 | 24-AUG-22 |
| Titanium (Ti)-Dissolved | | | 97.3 | | % | | 80-120 | 24-AUG-22 |
| Tungsten (W)-Dissolved | | | 102.9 | | % | | 80-120 | 24-AUG-22 |
| Uranium (U)-Dissolved | | | 99.3 | | % | | 80-120 | 24-AUG-22 |
| Vanadium (V)-Dissolved | | | 98.6 | | % | | 80-120 | 24-AUG-22 |
| Zinc (Zn)-Dissolved | | | 100.7 | | % | | 80-120 | 24-AUG-22 |
| Zirconium (Zr)-Dissolved | | | 97.1 | | % | | 80-120 | 24-AUG-22 |
| WG3759158-9 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 0.0016 | | mg/L | | 0.005 | 24-AUG-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 24-AUG-22 |
| Arsenic (As)-Dissolved | | | 0.0000020 | | mg/L | | 0.001 | 24-AUG-22 |
| Barium (Ba)-Dissolved | | | <0.000005 | | mg/L | | 0.01 | 24-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | Effluent | | | | | | | |
| Batch | R5848532 | | | | | | | |
| WG3759158-9 MB | | | | | | | | |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 24-AUG-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 24-AUG-22 |
| Boron (B)-Dissolved | | | 0.0020 | | mg/L | | 0.05 | 24-AUG-22 |
| Cadmium (Cd)-Dissolved | | | <0.000000E | | mg/L | | 0.000017 | 24-AUG-22 |
| Calcium (Ca)-Dissolved | | | <0.002 | | mg/L | | 0.2 | 24-AUG-22 |
| Cesium (Cs)-Dissolved | | | <0.000000E | | mg/L | | 0.00001 | 24-AUG-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 24-AUG-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 24-AUG-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 24-AUG-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 24-AUG-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 24-AUG-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 24-AUG-22 |
| Magnesium (Mg)-Dissolved | | | 0.0020 | | mg/L | | 0.02 | 24-AUG-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 24-AUG-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 24-AUG-22 |
| Nickel (Ni)-Dissolved | | | 0.00004 | | mg/L | | 0.002 | 24-AUG-22 |
| Phosphorus (P)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 24-AUG-22 |
| Potassium (K)-Dissolved | | | <0.01 | | mg/L | | 0.5 | 24-AUG-22 |
| Rubidium (Rb)-Dissolved | | | 0.000004 | | mg/L | | 0.0002 | 24-AUG-22 |
| Selenium (Se)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 24-AUG-22 |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 24-AUG-22 |
| Silver (Ag)-Dissolved | | | <0.000000E | | mg/L | | 0.0001 | 24-AUG-22 |
| Sodium (Na)-Dissolved | | | 0.005 | | mg/L | | 0.1 | 24-AUG-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 24-AUG-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 24-AUG-22 |
| Tellurium (Te)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 24-AUG-22 |
| Thallium (Tl)-Dissolved | | | <0.000002 | | mg/L | | 0.0003 | 24-AUG-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 24-AUG-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 24-AUG-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 24-AUG-22 |
| Tungsten (W)-Dissolved | | | <0.000002 | | mg/L | | 0.01 | 24-AUG-22 |
| Uranium (U)-Dissolved | | | <0.000000E | | mg/L | | 0.005 | 24-AUG-22 |
| Vanadium (V)-Dissolved | | | 0.00008 | | mg/L | | 0.001 | 24-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5848532 | | | | | | | |
| WG3759158-9 MB | | | | | | | | |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.003 | 24-AUG-22 |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 24-AUG-22 |
| WG3759158-12 MS | | L2728067-2 | | | | | | |
| Aluminum (Al)-Dissolved | | | 113.6 | | % | | 70-130 | 24-AUG-22 |
| Antimony (Sb)-Dissolved | | | 116.4 | | % | | 70-130 | 24-AUG-22 |
| Arsenic (As)-Dissolved | | | 114.1 | | % | | 70-130 | 24-AUG-22 |
| Barium (Ba)-Dissolved | | | 122.3 | | % | | 70-130 | 24-AUG-22 |
| Beryllium (Be)-Dissolved | | | 123.5 | | % | | 70-130 | 24-AUG-22 |
| Bismuth (Bi)-Dissolved | | | 116.9 | | % | | 70-130 | 24-AUG-22 |
| Boron (B)-Dissolved | | | 125.5 | | % | | 70-130 | 24-AUG-22 |
| Cadmium (Cd)-Dissolved | | | 122.2 | | % | | 70-130 | 24-AUG-22 |
| Calcium (Ca)-Dissolved | | | N/A | MS-B | % | | - | 24-AUG-22 |
| Cesium (Cs)-Dissolved | | | 128.9 | | % | | 70-130 | 24-AUG-22 |
| Chromium (Cr)-Dissolved | | | 119.2 | | % | | 70-130 | 24-AUG-22 |
| Cobalt (Co)-Dissolved | | | 116.8 | | % | | 70-130 | 24-AUG-22 |
| Copper (Cu)-Dissolved | | | 116.0 | | % | | 70-130 | 24-AUG-22 |
| Iron (Fe)-Dissolved | | | 115.4 | | % | | 70-130 | 24-AUG-22 |
| Lead (Pb)-Dissolved | | | 120.5 | | % | | 70-130 | 24-AUG-22 |
| Lithium (Li)-Dissolved | | | 117.7 | | % | | 70-130 | 24-AUG-22 |
| Magnesium (Mg)-Dissolved | | | N/A | MS-B | % | | - | 24-AUG-22 |
| Manganese (Mn)-Dissolved | | | 118.4 | | % | | 70-130 | 24-AUG-22 |
| Molybdenum (Mo)-Dissolved | | | 107.1 | | % | | 70-130 | 24-AUG-22 |
| Nickel (Ni)-Dissolved | | | 117.8 | | % | | 70-130 | 24-AUG-22 |
| Phosphorus (P)-Dissolved | | | 124.4 | | % | | 70-130 | 24-AUG-22 |
| Potassium (K)-Dissolved | | | N/A | MS-B | % | | - | 24-AUG-22 |
| Rubidium (Rb)-Dissolved | | | 118.5 | | % | | 70-130 | 24-AUG-22 |
| Selenium (Se)-Dissolved | | | 123.5 | | % | | 70-130 | 24-AUG-22 |
| Silicon (Si)-Dissolved | | | 100.7 | | % | | 70-130 | 24-AUG-22 |
| Silver (Ag)-Dissolved | | | 120.8 | | % | | 70-130 | 24-AUG-22 |
| Sodium (Na)-Dissolved | | | N/A | MS-B | % | | - | 24-AUG-22 |
| Strontium (Sr)-Dissolved | | | N/A | MS-B | % | | - | 24-AUG-22 |
| Sulfur (S)-Dissolved | | | N/A | MS-B | % | | - | 24-AUG-22 |
| Tellurium (Te)-Dissolved | | | 114.8 | | % | | 70-130 | 24-AUG-22 |
| Thallium (Tl)-Dissolved | | | 118.2 | | % | | 70-130 | 24-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5848532 | | | | | | | |
| WG3759158-12 MS | | L2728067-2 | | | | | | |
| Thorium (Th)-Dissolved | | | 118.2 | | % | | 70-130 | 24-AUG-22 |
| Tin (Sn)-Dissolved | | | 114.2 | | % | | 70-130 | 24-AUG-22 |
| Titanium (Ti)-Dissolved | | | 110.0 | | % | | 70-130 | 24-AUG-22 |
| Tungsten (W)-Dissolved | | | 117.3 | | % | | 70-130 | 24-AUG-22 |
| Uranium (U)-Dissolved | | | 119.2 | | % | | 70-130 | 24-AUG-22 |
| Vanadium (V)-Dissolved | | | 119.9 | | % | | 70-130 | 24-AUG-22 |
| Zinc (Zn)-Dissolved | | | 121.1 | | % | | 70-130 | 24-AUG-22 |
| Zirconium (Zr)-Dissolved | | | 107.8 | | % | | 70-130 | 24-AUG-22 |
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5848117 | | | | | | | |
| WG3756953-11 DUP | | L2728012-12 | | | | | | |
| Aluminum (Al)-Total | | 0.424 | 0.398 | | mg/L | 6.2 | 20 | 22-AUG-22 |
| Antimony (Sb)-Total | | 0.000145 | 0.000140 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Arsenic (As)-Total | | 0.00302 | 0.00304 | | mg/L | 0.4 | 20 | 22-AUG-22 |
| Barium (Ba)-Total | | 0.0216 | 0.0217 | | mg/L | 0.4 | 20 | 22-AUG-22 |
| Beryllium (Be)-Total | | 0.0000249 | 0.0000300 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Bismuth (Bi)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Boron (B)-Total | | 0.0105 | 0.0110 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Cadmium (Cd)-Total | | 0.000012 | 0.000012 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Calcium (Ca)-Total | | 36.6 | 37.0 | | mg/L | 1.2 | 20 | 22-AUG-22 |
| Cesium (Cs)-Total | | 0.0000530 | 0.0000490 | | mg/L | 7.9 | 20 | 22-AUG-22 |
| Chromium (Cr)-Total | | 0.00106 | 0.00094 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Cobalt (Co)-Total | | 0.000635 | 0.000635 | | mg/L | 0.2 | 20 | 22-AUG-22 |
| Copper (Cu)-Total | | 0.00138 | 0.00138 | | mg/L | 0.1 | 20 | 22-AUG-22 |
| Iron (Fe)-Total | | 1.46 | 1.46 | | mg/L | 0.1 | 20 | 22-AUG-22 |
| Lead (Pb)-Total | | 0.00042 | 0.00041 | | mg/L | 1.0 | 20 | 22-AUG-22 |
| Lithium (Li)-Total | | 0.0054 | 0.0056 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Magnesium (Mg)-Total | | 15.6 | 16.1 | | mg/L | 3.1 | 20 | 22-AUG-22 |
| Manganese (Mn)-Total | | 0.188 | 0.189 | | mg/L | 0.9 | 20 | 22-AUG-22 |
| Molybdenum (Mo)-Total | | 0.000700 | 0.000620 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Nickel (Ni)-Total | | 0.00266 | 0.00266 | | mg/L | 0.5 | 20 | 22-AUG-22 |
| Phosphorus (P)-Total | | 0.095 | 0.080 | | mg/L | 16 | 20 | 22-AUG-22 |
| Potassium (K)-Total | | 1.23 | 1.24 | | mg/L | 0.5 | 20 | 22-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5848117 | | | | | | | |
| WG3756953-11 | DUP | L2728012-12 | | | | | | |
| Rubidium (Rb)-Total | | 0.00259 | 0.00245 | | mg/L | 5.5 | 20 | 22-AUG-22 |
| Selenium (Se)-Total | | 0.000255 | 0.000230 | | mg/L | 11 | 20 | 22-AUG-22 |
| Silicon (Si)-Total | | 6.37 | 6.25 | | mg/L | 1.9 | 20 | 22-AUG-22 |
| Silver (Ag)-Total | | 0.000001 | <0.000001 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Sodium (Na)-Total | | 4.72 | 4.77 | | mg/L | 1.0 | 20 | 22-AUG-22 |
| Strontium (Sr)-Total | | 0.0926 | 0.0924 | | mg/L | 0.2 | 20 | 22-AUG-22 |
| Sulfur (S)-Total | | 4.2 | 4.0 | | mg/L | 6.0 | 20 | 22-AUG-22 |
| Tellurium (Te)-Total | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Thallium (Tl)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Thorium (Th)-Total | | 0.00008 | 0.00003 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Tin (Sn)-Total | | 0.00005 | 0.00003 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Titanium (Ti)-Total | | 0.0128 | 0.0119 | | mg/L | 7.5 | 20 | 22-AUG-22 |
| Tungsten (W)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Uranium (U)-Total | | 0.000474 | 0.000481 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Vanadium (V)-Total | | 0.00205 | 0.00195 | | mg/L | 6.9 | 20 | 22-AUG-22 |
| Zinc (Zn)-Total | | 0.0030 | 0.0030 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| Zirconium (Zr)-Total | | 0.000692 | 0.000526 | RPD-NA | mg/L | N/A | 20 | 22-AUG-22 |
| WG3756953-10 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 107.1 | | % | | 80-120 | 22-AUG-22 |
| Antimony (Sb)-Total | | | 110.7 | | % | | 80-120 | 22-AUG-22 |
| Arsenic (As)-Total | | | 103.8 | | % | | 80-120 | 22-AUG-22 |
| Barium (Ba)-Total | | | 103.5 | | % | | 80-120 | 22-AUG-22 |
| Beryllium (Be)-Total | | | 103.6 | | % | | 80-120 | 22-AUG-22 |
| Bismuth (Bi)-Total | | | 105.1 | | % | | 80-120 | 22-AUG-22 |
| Boron (B)-Total | | | 102.8 | | % | | 80-120 | 22-AUG-22 |
| Cadmium (Cd)-Total | | | 102.1 | | % | | 80-120 | 22-AUG-22 |
| Calcium (Ca)-Total | | | 102.1 | | % | | 80-120 | 22-AUG-22 |
| Cesium (Cs)-Total | | | 111.4 | | % | | 80-120 | 22-AUG-22 |
| Chromium (Cr)-Total | | | 102.9 | | % | | 80-120 | 22-AUG-22 |
| Cobalt (Co)-Total | | | 101.7 | | % | | 80-120 | 22-AUG-22 |
| Copper (Cu)-Total | | | 100.0 | | % | | 80-120 | 22-AUG-22 |
| Iron (Fe)-Total | | | 105.1 | | % | | 80-120 | 22-AUG-22 |
| Lead (Pb)-Total | | | 104.2 | | % | | 80-120 | 22-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5848117 | | | | | | | |
| WG3756953-10 LCS | | | | | | | | |
| Lithium (Li)-Total | | | 103.6 | | % | | 80-120 | 22-AUG-22 |
| Magnesium (Mg)-Total | | | 105.9 | | % | | 80-120 | 22-AUG-22 |
| Manganese (Mn)-Total | | | 103.2 | | % | | 80-120 | 22-AUG-22 |
| Molybdenum (Mo)-Total | | | 103.7 | | % | | 80-120 | 22-AUG-22 |
| Nickel (Ni)-Total | | | 103.7 | | % | | 80-120 | 22-AUG-22 |
| Phosphorus (P)-Total | | | 105.9 | | % | | 80-120 | 22-AUG-22 |
| Potassium (K)-Total | | | 111.2 | | % | | 80-120 | 22-AUG-22 |
| Rubidium (Rb)-Total | | | 107.0 | | % | | 80-120 | 22-AUG-22 |
| Selenium (Se)-Total | | | 103.0 | | % | | 80-120 | 22-AUG-22 |
| Silicon (Si)-Total | | | 105.6 | | % | | 80-120 | 22-AUG-22 |
| Silver (Ag)-Total | | | 97.5 | | % | | 80-120 | 22-AUG-22 |
| Sodium (Na)-Total | | | 106.2 | | % | | 80-120 | 22-AUG-22 |
| Strontium (Sr)-Total | | | 101.0 | | % | | 80-120 | 22-AUG-22 |
| Sulfur (S)-Total | | | 99.6 | | % | | 80-120 | 22-AUG-22 |
| Tellurium (Te)-Total | | | 105.4 | | % | | 80-120 | 22-AUG-22 |
| Thallium (Tl)-Total | | | 105.0 | | % | | 80-120 | 22-AUG-22 |
| Thorium (Th)-Total | | | 100.6 | | % | | 80-120 | 22-AUG-22 |
| Tin (Sn)-Total | | | 100.9 | | % | | 80-120 | 22-AUG-22 |
| Titanium (Ti)-Total | | | 101.9 | | % | | 80-120 | 22-AUG-22 |
| Tungsten (W)-Total | | | 104.5 | | % | | 80-120 | 22-AUG-22 |
| Uranium (U)-Total | | | 100.9 | | % | | 80-120 | 22-AUG-22 |
| Vanadium (V)-Total | | | 104.3 | | % | | 80-120 | 22-AUG-22 |
| Zinc (Zn)-Total | | | 100.6 | | % | | 80-120 | 22-AUG-22 |
| Zirconium (Zr)-Total | | | 101.6 | | % | | 80-120 | 22-AUG-22 |
| WG3756953-9 MB | | | | | | | | |
| Aluminum (Al)-Total | | | <0.0002 | | mg/L | | 0.005 | 22-AUG-22 |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 22-AUG-22 |
| Arsenic (As)-Total | | | <0.00001 | | mg/L | | 0.001 | 22-AUG-22 |
| Barium (Ba)-Total | | | <0.00001 | | mg/L | | 0.01 | 22-AUG-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 22-AUG-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 22-AUG-22 |
| Boron (B)-Total | | | <0.0005 | | mg/L | | 0.05 | 22-AUG-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 22-AUG-22 |
| Calcium (Ca)-Total | | | <0.002 | | mg/L | | 0.2 | 22-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|------------|-----------|-------|-----|---------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5848117 | | | | | | | |
| WG3756953-9 MB | | | | | | | | |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 22-AUG-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 22-AUG-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 22-AUG-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 22-AUG-22 |
| Iron (Fe)-Total | | | <0.0005 | | mg/L | | 0.02 | 22-AUG-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 22-AUG-22 |
| Lithium (Li)-Total | | | <0.0002 | | mg/L | | 0.05 | 22-AUG-22 |
| Magnesium (Mg)-Total | | | 0.0026 | | mg/L | | 0.02 | 22-AUG-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 22-AUG-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 22-AUG-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 22-AUG-22 |
| Phosphorus (P)-Total | | | 0.005 | | mg/L | | 0.05 | 22-AUG-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 22-AUG-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 22-AUG-22 |
| Selenium (Se)-Total | | | <0.000005 | | mg/L | | 0.00005 | 22-AUG-22 |
| Silicon (Si)-Total | | | 0.020 | | mg/L | | 0.1 | 22-AUG-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 22-AUG-22 |
| Sodium (Na)-Total | | | 0.010 | | mg/L | | 0.1 | 22-AUG-22 |
| Strontium (Sr)-Total | | | <0.000005 | | mg/L | | 0.001 | 22-AUG-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 22-AUG-22 |
| Tellurium (Te)-Total | | | <0.00002 | | mg/L | | 0.001 | 22-AUG-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 22-AUG-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 22-AUG-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 22-AUG-22 |
| Titanium (Ti)-Total | | | <0.00001 | | mg/L | | 0.002 | 22-AUG-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 22-AUG-22 |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.005 | 22-AUG-22 |
| Vanadium (V)-Total | | | 0.00015 | | mg/L | | 0.001 | 22-AUG-22 |
| Zinc (Zn)-Total | | | <0.0005 | | mg/L | | 0.003 | 22-AUG-22 |
| Zirconium (Zr)-Total | | | <0.000002 | | mg/L | | 0.001 | 22-AUG-22 |
| WG3756953-12 MS | | L2728012-14 | | | | | | |
| Aluminum (Al)-Total | | | N/A | MS-B | % | | - | 22-AUG-22 |
| Antimony (Sb)-Total | | | 118.5 | | % | | 70-130 | 22-AUG-22 |
| Arsenic (As)-Total | | | 114.0 | | % | | 70-130 | 22-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5848117 | | | | | | | |
| WG3756953-12 MS | | L2728012-14 | | | | | | |
| Barium (Ba)-Total | | | N/A | MS-B | % | | - | 22-AUG-22 |
| Beryllium (Be)-Total | | | 113.4 | | % | | 70-130 | 22-AUG-22 |
| Bismuth (Bi)-Total | | | 115.7 | | % | | 70-130 | 22-AUG-22 |
| Boron (B)-Total | | | 110.9 | | % | | 70-130 | 22-AUG-22 |
| Cadmium (Cd)-Total | | | 117.1 | | % | | 70-130 | 22-AUG-22 |
| Calcium (Ca)-Total | | | N/A | MS-B | % | | - | 22-AUG-22 |
| Cesium (Cs)-Total | | | 124.9 | | % | | 70-130 | 22-AUG-22 |
| Chromium (Cr)-Total | | | 120.6 | | % | | 70-130 | 22-AUG-22 |
| Cobalt (Co)-Total | | | 117.0 | | % | | 70-130 | 22-AUG-22 |
| Copper (Cu)-Total | | | 113.6 | | % | | 70-130 | 22-AUG-22 |
| Iron (Fe)-Total | | | 121.4 | | % | | 70-130 | 22-AUG-22 |
| Lead (Pb)-Total | | | 115.4 | | % | | 70-130 | 22-AUG-22 |
| Lithium (Li)-Total | | | 110.0 | | % | | 70-130 | 22-AUG-22 |
| Magnesium (Mg)-Total | | | N/A | MS-B | % | | - | 22-AUG-22 |
| Manganese (Mn)-Total | | | N/A | MS-B | % | | - | 22-AUG-22 |
| Molybdenum (Mo)-Total | | | 115.2 | | % | | 70-130 | 22-AUG-22 |
| Nickel (Ni)-Total | | | 117.2 | | % | | 70-130 | 22-AUG-22 |
| Phosphorus (P)-Total | | | 125.1 | | % | | 70-130 | 22-AUG-22 |
| Potassium (K)-Total | | | 122.1 | | % | | 70-130 | 22-AUG-22 |
| Rubidium (Rb)-Total | | | 118.9 | | % | | 70-130 | 22-AUG-22 |
| Selenium (Se)-Total | | | 119.7 | | % | | 70-130 | 22-AUG-22 |
| Silicon (Si)-Total | | | 114.0 | | % | | 70-130 | 22-AUG-22 |
| Silver (Ag)-Total | | | 120.9 | | % | | 70-130 | 22-AUG-22 |
| Sodium (Na)-Total | | | N/A | MS-B | % | | - | 22-AUG-22 |
| Strontium (Sr)-Total | | | N/A | MS-B | % | | - | 22-AUG-22 |
| Sulfur (S)-Total | | | 122.8 | | % | | 70-130 | 22-AUG-22 |
| Tellurium (Te)-Total | | | 116.2 | | % | | 70-130 | 22-AUG-22 |
| Thallium (Tl)-Total | | | 115.8 | | % | | 70-130 | 22-AUG-22 |
| Thorium (Th)-Total | | | 114.3 | | % | | 70-130 | 22-AUG-22 |
| Tin (Sn)-Total | | | 109.8 | | % | | 70-130 | 22-AUG-22 |
| Titanium (Ti)-Total | | | 121.1 | | % | | 70-130 | 22-AUG-22 |
| Tungsten (W)-Total | | | 112.5 | | % | | 70-130 | 22-AUG-22 |
| Uranium (U)-Total | | | 115.5 | | % | | 70-130 | 22-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5848117 | | | | | | | |
| WG3756953-12 MS | | L2728012-14 | | | | | | |
| Vanadium (V)-Total | | | 120.9 | | % | | 70-130 | 22-AUG-22 |
| Zinc (Zn)-Total | | | 112.6 | | % | | 70-130 | 22-AUG-22 |
| Zirconium (Zr)-Total | | | 118.8 | | % | | 70-130 | 22-AUG-22 |
| Batch | R5848238 | | | | | | | |
| WG3757037-2 LCS | | | | | | | | |
| Aluminum (Al)-Total | | | 104.5 | | % | | 80-120 | 23-AUG-22 |
| Antimony (Sb)-Total | | | 103.7 | | % | | 80-120 | 23-AUG-22 |
| Arsenic (As)-Total | | | 102.5 | | % | | 80-120 | 23-AUG-22 |
| Barium (Ba)-Total | | | 105.2 | | % | | 80-120 | 23-AUG-22 |
| Beryllium (Be)-Total | | | 99.4 | | % | | 80-120 | 23-AUG-22 |
| Bismuth (Bi)-Total | | | 104.1 | | % | | 80-120 | 23-AUG-22 |
| Boron (B)-Total | | | 93.2 | | % | | 80-120 | 23-AUG-22 |
| Cadmium (Cd)-Total | | | 102.0 | | % | | 80-120 | 23-AUG-22 |
| Calcium (Ca)-Total | | | 101.7 | | % | | 80-120 | 23-AUG-22 |
| Cesium (Cs)-Total | | | 105.4 | | % | | 80-120 | 23-AUG-22 |
| Chromium (Cr)-Total | | | 102.0 | | % | | 80-120 | 23-AUG-22 |
| Cobalt (Co)-Total | | | 97.7 | | % | | 80-120 | 23-AUG-22 |
| Copper (Cu)-Total | | | 97.6 | | % | | 80-120 | 23-AUG-22 |
| Iron (Fe)-Total | | | 109.4 | | % | | 80-120 | 23-AUG-22 |
| Lead (Pb)-Total | | | 103.0 | | % | | 80-120 | 23-AUG-22 |
| Lithium (Li)-Total | | | 92.7 | | % | | 80-120 | 23-AUG-22 |
| Magnesium (Mg)-Total | | | 97.1 | | % | | 80-120 | 23-AUG-22 |
| Manganese (Mn)-Total | | | 98.6 | | % | | 80-120 | 23-AUG-22 |
| Molybdenum (Mo)-Total | | | 101.2 | | % | | 80-120 | 23-AUG-22 |
| Nickel (Ni)-Total | | | 99.6 | | % | | 80-120 | 23-AUG-22 |
| Phosphorus (P)-Total | | | 104.1 | | % | | 80-120 | 23-AUG-22 |
| Potassium (K)-Total | | | 107.4 | | % | | 80-120 | 23-AUG-22 |
| Rubidium (Rb)-Total | | | 99.97 | | % | | 80-120 | 23-AUG-22 |
| Selenium (Se)-Total | | | 107.8 | | % | | 80-120 | 23-AUG-22 |
| Silicon (Si)-Total | | | 103.6 | | % | | 80-120 | 23-AUG-22 |
| Silver (Ag)-Total | | | 97.8 | | % | | 80-120 | 23-AUG-22 |
| Sodium (Na)-Total | | | 101.7 | | % | | 80-120 | 23-AUG-22 |
| Strontium (Sr)-Total | | | 102.0 | | % | | 80-120 | 23-AUG-22 |
| Sulfur (S)-Total | | | 80.3 | | % | | 80-120 | 23-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5848238 | | | | | | | |
| WG3757037-2 LCS | | | | | | | | |
| Tellurium (Te)-Total | | | 104.2 | | % | | 80-120 | 23-AUG-22 |
| Thallium (Tl)-Total | | | 103.4 | | % | | 80-120 | 23-AUG-22 |
| Thorium (Th)-Total | | | 103.1 | | % | | 80-120 | 23-AUG-22 |
| Tin (Sn)-Total | | | 101.5 | | % | | 80-120 | 23-AUG-22 |
| Titanium (Ti)-Total | | | 96.8 | | % | | 80-120 | 23-AUG-22 |
| Tungsten (W)-Total | | | 102.5 | | % | | 80-120 | 23-AUG-22 |
| Uranium (U)-Total | | | 106.2 | | % | | 80-120 | 23-AUG-22 |
| Vanadium (V)-Total | | | 101.8 | | % | | 80-120 | 23-AUG-22 |
| Zinc (Zn)-Total | | | 101.5 | | % | | 80-120 | 23-AUG-22 |
| Zirconium (Zr)-Total | | | 103.8 | | % | | 80-120 | 23-AUG-22 |
| WG3757037-1 MB | | | | | | | | |
| Aluminum (Al)-Total | | | 0.0038 | | mg/L | | 0.005 | 23-AUG-22 |
| Antimony (Sb)-Total | | | 0.000005 | | mg/L | | 0.0006 | 23-AUG-22 |
| Arsenic (As)-Total | | | 0.00002 | | mg/L | | 0.001 | 23-AUG-22 |
| Barium (Ba)-Total | | | 0.00002 | | mg/L | | 0.01 | 23-AUG-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 23-AUG-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 23-AUG-22 |
| Boron (B)-Total | | | <0.0005 | | mg/L | | 0.05 | 23-AUG-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 23-AUG-22 |
| Calcium (Ca)-Total | | | 0.024 | | mg/L | | 0.2 | 23-AUG-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 23-AUG-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 23-AUG-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 23-AUG-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 23-AUG-22 |
| Iron (Fe)-Total | | | 0.0015 | | mg/L | | 0.02 | 23-AUG-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 23-AUG-22 |
| Lithium (Li)-Total | | | <0.0002 | | mg/L | | 0.05 | 23-AUG-22 |
| Magnesium (Mg)-Total | | | 0.0168 | | mg/L | | 0.02 | 23-AUG-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 23-AUG-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 23-AUG-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 23-AUG-22 |
| Phosphorus (P)-Total | | | 0.005 | | mg/L | | 0.05 | 23-AUG-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 23-AUG-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 23-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|-----------|-----------|-------|-----|---------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5848238 | | | | | | | |
| WG3757037-1 MB | | | | | | | | |
| Selenium (Se)-Total | | | <0.000005 | | mg/L | | 0.00005 | 23-AUG-22 |
| Silicon (Si)-Total | | | 0.028 | | mg/L | | 0.1 | 23-AUG-22 |
| Silver (Ag)-Total | | | 0.000001 | | mg/L | | 0.0001 | 23-AUG-22 |
| Sodium (Na)-Total | | | 0.010 | | mg/L | | 0.1 | 23-AUG-22 |
| Strontium (Sr)-Total | | | 0.000055 | | mg/L | | 0.001 | 23-AUG-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 23-AUG-22 |
| Tellurium (Te)-Total | | | <0.00002 | | mg/L | | 0.001 | 23-AUG-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 23-AUG-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 23-AUG-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 23-AUG-22 |
| Titanium (Ti)-Total | | | 0.00005 | | mg/L | | 0.002 | 23-AUG-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 23-AUG-22 |
| Uranium (U)-Total | | | 0.0000020 | | mg/L | | 0.005 | 23-AUG-22 |
| Vanadium (V)-Total | | | 0.00015 | | mg/L | | 0.001 | 23-AUG-22 |
| Zinc (Zn)-Total | | | <0.0005 | | mg/L | | 0.003 | 23-AUG-22 |
| Zirconium (Zr)-Total | | | 0.000006 | | mg/L | | 0.001 | 23-AUG-22 |
| NH3-MISA-F-TB | | Effluent | | | | | | |
| Batch | R5848081 | | | | | | | |
| WG3756910-3 DUP | | L2728012-21 | | | | | | |
| Ammonia, Total (as N) | | 0.028 | 0.028 | | mg/L | 3.9 | 20 | 17-AUG-22 |
| WG3756908-2 LCS | | | | | | | | |
| Ammonia, Total (as N) | | | 98.8 | | % | | 85-115 | 17-AUG-22 |
| WG3756910-2 LCS | | | | | | | | |
| Ammonia, Total (as N) | | | 99.1 | | % | | 85-115 | 17-AUG-22 |
| WG3756908-1 MB | | | | | | | | |
| Ammonia, Total (as N) | | | 0.002 | | mg/L | | 0.005 | 17-AUG-22 |
| WG3756910-1 MB | | | | | | | | |
| Ammonia, Total (as N) | | | 0.002 | | mg/L | | 0.005 | 17-AUG-22 |
| WG3756908-4 MS | | L2727995-2 | | | | | | |
| Ammonia, Total (as N) | | | 75.8 | | % | | 75-125 | 17-AUG-22 |
| WG3756910-4 MS | | L2728012-22 | | | | | | |
| Ammonia, Total (as N) | | | 94.1 | | % | | 75-125 | 17-AUG-22 |
| NO2-MISA-IC-TB | | Effluent | | | | | | |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| NO2-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5843767 | | | | | | | |
| WG3756980-3 | DUP | L2728012-11 | | | | | | |
| Nitrite (as N) | | <0.001 | <0.001 | RPD-NA | mg/L | N/A | 20 | 15-AUG-22 |
| WG3756981-3 | DUP | L2728067-9 | | | | | | |
| Nitrite (as N) | | 0.087 | 0.086 | | mg/L | 1.4 | 20 | 15-AUG-22 |
| WG3756980-2 | LCS | | | | | | | |
| Nitrite (as N) | | | 94.7 | | % | | 90-110 | 15-AUG-22 |
| WG3756981-2 | LCS | | | | | | | |
| Nitrite (as N) | | | 94.5 | | % | | 90-110 | 15-AUG-22 |
| WG3756980-1 | MB | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 15-AUG-22 |
| WG3756981-1 | MB | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 15-AUG-22 |
| WG3756980-4 | MS | L2728012-12 | | | | | | |
| Nitrite (as N) | | | 89.3 | | % | | 75-125 | 15-AUG-22 |
| WG3756981-4 | MS | L2728067-10 | | | | | | |
| Nitrite (as N) | | | 103.3 | | % | | 75-125 | 15-AUG-22 |
| NO3-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5843767 | | | | | | | |
| WG3756980-3 | DUP | L2728012-11 | | | | | | |
| Nitrate (as N) | | 0.004 | <0.002 | RPD-NA | mg/L | N/A | 20 | 15-AUG-22 |
| WG3756981-3 | DUP | L2728067-9 | | | | | | |
| Nitrate (as N) | | 0.730 | 0.722 | | mg/L | 1.2 | 20 | 15-AUG-22 |
| WG3756980-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 102.8 | | % | | 90-110 | 15-AUG-22 |
| WG3756981-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 103.5 | | % | | 90-110 | 15-AUG-22 |
| WG3756980-1 | MB | | | | | | | |
| Nitrate (as N) | | | <0.002 | | mg/L | | 0.02 | 15-AUG-22 |
| WG3756981-1 | MB | | | | | | | |
| Nitrate (as N) | | | <0.002 | | mg/L | | 0.02 | 15-AUG-22 |
| WG3756980-4 | MS | L2728012-12 | | | | | | |
| Nitrate (as N) | | | 101.1 | | % | | 75-125 | 15-AUG-22 |
| WG3756981-4 | MS | L2728067-10 | | | | | | |
| Nitrate (as N) | | | 105.4 | | % | | 75-125 | 15-AUG-22 |

OGG-TOT-WT **Effluent**



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|----------|-----------------|--------|-----------|-------|------|---------|-----------|
| OGG-TOT-WT | | Effluent | | | | | | |
| Batch | R5846002 | | | | | | | |
| WG3758152-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 101.4 | | % | | 50-150 | 19-AUG-22 |
| WG3758152-1 | MB | | | | | | | |
| Oil and Grease, Total | | | 0.6 | | mg/L | | 5 | 19-AUG-22 |
| PH-MISA-TB | | Effluent | | | | | | |
| Batch | R5842741 | | | | | | | |
| WG3756923-3 | DUP | L2727953-21 | | | | | | |
| pH | | 7.26 | 7.36 | J | pH | 0.10 | 0.2 | 13-AUG-22 |
| WG3756926-3 | DUP | L2728012-8 | | | | | | |
| pH | | 7.88 | 7.90 | J | pH | 0.02 | 0.2 | 13-AUG-22 |
| WG3756932-3 | DUP | L2727953-35 | | | | | | |
| pH | | 5.76 | 5.55 | DUP-H,J | pH | 0.21 | 0.2 | 13-AUG-22 |
| WG3756923-2 | LCS | | | | | | | |
| pH | | | 7.01 | | pH | | 6.9-7.1 | 13-AUG-22 |
| WG3756926-2 | LCS | | | | | | | |
| pH | | | 7.02 | | pH | | 6.9-7.1 | 13-AUG-22 |
| WG3756932-2 | LCS | | | | | | | |
| pH | | | 7.03 | | pH | | 6.9-7.1 | 13-AUG-22 |
| Batch | R5846120 | | | | | | | |
| WG3758345-2 | LCS | | | | | | | |
| pH | | | 7.00 | | pH | | 6.9-7.1 | 15-AUG-22 |
| SO4-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5843767 | | | | | | | |
| WG3756981-3 | DUP | L2728067-9 | | | | | | |
| Sulfate (SO4) | | 48.4 | 48.3 | | mg/L | 0.2 | 20 | 15-AUG-22 |
| WG3756980-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 105.7 | | % | | 90-110 | 15-AUG-22 |
| WG3756981-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 105.5 | | % | | 90-110 | 15-AUG-22 |
| WG3756980-1 | MB | | | | | | | |
| Sulfate (SO4) | | | <0.05 | | mg/L | | 0.3 | 15-AUG-22 |
| WG3756981-1 | MB | | | | | | | |
| Sulfate (SO4) | | | <0.05 | | mg/L | | 0.3 | 15-AUG-22 |
| WG3756980-4 | MS | L2728012-12 | | | | | | |
| Sulfate (SO4) | | | 101.4 | | % | | 75-125 | 15-AUG-22 |
| WG3756981-4 | MS | L2728067-10 | | | | | | |
| Sulfate (SO4) | | | 103.1 | | % | | 75-125 | 15-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| SO4-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5844808 | | | | | | | |
| WG3757554-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 105.9 | | % | | 90-110 | 17-AUG-22 |
| WG3757554-1 | MB | | | | | | | |
| Sulfate (SO4) | | | <0.05 | | mg/L | | 0.3 | 17-AUG-22 |
| TDS-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5844296 | | | | | | | |
| WG3757274-3 | DUP | L2728012-19 | | | | | | |
| Total Dissolved Solids | | 232 | 226 | | mg/L | 2.0 | 20 | 16-AUG-22 |
| WG3757274-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 96.0 | | % | | 85-115 | 16-AUG-22 |
| WG3757274-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <2 | | mg/L | | 10 | 16-AUG-22 |
| Batch | R5844577 | | | | | | | |
| WG3757265-3 | DUP | L2728012-11 | | | | | | |
| Total Dissolved Solids | | 6 | 6 | RPD-NA | mg/L | N/A | 20 | 16-AUG-22 |
| WG3757265-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 94.5 | | % | | 85-115 | 16-AUG-22 |
| WG3757265-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <2 | | mg/L | | 10 | 16-AUG-22 |
| Batch | R5845125 | | | | | | | |
| WG3757030-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 99.5 | | % | | 85-115 | 17-AUG-22 |
| WG3757030-1 | MB | | | | | | | |
| Total Dissolved Solids | | | 2 | | mg/L | | 10 | 17-AUG-22 |
| Batch | R5845860 | | | | | | | |
| WG3757879-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 95.5 | | % | | 85-115 | 18-AUG-22 |
| WG3757879-1 | MB | | | | | | | |
| Total Dissolved Solids | | | 4 | | mg/L | | 10 | 18-AUG-22 |
| TSS-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5844262 | | | | | | | |
| WG3757271-3 | DUP | L2728012-19 | | | | | | |
| Total Suspended Solids | | 5.0 | 6.0 | J | mg/L | 1.2 | 6 | 16-AUG-22 |
| WG3757271-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 101.7 | | % | | 85-115 | 16-AUG-22 |
| WG3757271-1 | MB | | | | | | | |
| Total Suspended Solids | | | 0.5 | | mg/L | | 3 | 16-AUG-22 |



Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| TSS-MISA-TB | | | | | | | | |
| Batch R5844520 | | | | | | | | |
| WG3757267-3 | DUP | L2728012-11 | | | | | | |
| Total Suspended Solids | | <0.5 | <0.5 | RPD-NA | mg/L | N/A | 20 | 16-AUG-22 |
| WG3757267-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 89.7 | | % | | 85-115 | 16-AUG-22 |
| WG3757267-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 16-AUG-22 |
| Batch R5845284 | | | | | | | | |
| WG3757029-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 101.7 | | % | | 85-115 | 17-AUG-22 |
| WG3757029-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 17-AUG-22 |
| Batch R5845819 | | | | | | | | |
| WG3757882-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 85.5 | | % | | 85-115 | 18-AUG-22 |
| WG3757882-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 18-AUG-22 |

Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| DUP-H | Duplicate results outside ALS DQO, due to sample heterogeneity. |
| DUP-H,J | Duplicate results outside ALS DQO, due to sample heterogeneity. Duplicate results and limits are expressed in terms of absolute difference. |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Page 28 of 30

Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Colour, True | 1 | 09-AUG-22 08:40 | 14-AUG-22 10:30 | 3 | 5 | days | EHTR |
| | 3 | 09-AUG-22 09:05 | 14-AUG-22 10:30 | 3 | 5 | days | EHTR |
| | 4 | 09-AUG-22 09:30 | 14-AUG-22 10:30 | 3 | 5 | days | EHTL |
| | 5 | 09-AUG-22 09:30 | 14-AUG-22 10:30 | 3 | 5 | days | EHTL |
| | 6 | 09-AUG-22 10:10 | 14-AUG-22 10:30 | 3 | 5 | days | EHTL |
| | 7 | 09-AUG-22 10:30 | 14-AUG-22 10:30 | 3 | 5 | days | EHTL |
| | 8 | 09-AUG-22 10:30 | 14-AUG-22 10:30 | 3 | 5 | days | EHTL |
| | 9 | 09-AUG-22 10:55 | 14-AUG-22 10:30 | 3 | 5 | days | EHTL |
| | 10 | 09-AUG-22 11:30 | 14-AUG-22 10:30 | 3 | 5 | days | EHTL |
| | 11 | 09-AUG-22 12:00 | 14-AUG-22 10:30 | 3 | 5 | days | EHTL |
| | 12 | 09-AUG-22 12:10 | 14-AUG-22 10:30 | 3 | 5 | days | EHTL |
| | 14 | 10-AUG-22 00:30 | 14-AUG-22 10:30 | 3 | 4 | days | EHTL |
| | 16 | 10-AUG-22 11:30 | 14-AUG-22 10:30 | 3 | 4 | days | EHT |
| | 18 | 10-AUG-22 11:45 | 14-AUG-22 10:30 | 3 | 4 | days | EHT |
| | 19 | 10-AUG-22 12:00 | 14-AUG-22 10:30 | 3 | 4 | days | EHT |
| | 20 | 10-AUG-22 12:00 | 14-AUG-22 10:30 | 3 | 4 | days | EHT |
| | 21 | 10-AUG-22 13:30 | 14-AUG-22 10:30 | 3 | 4 | days | EHT |
| | 22 | 10-AUG-22 13:30 | 14-AUG-22 10:30 | 3 | 4 | days | EHT |
| Total Dissolved Solids | 1 | 09-AUG-22 08:40 | 17-AUG-22 09:00 | 7 | 8 | days | EHT |
| | 3 | 09-AUG-22 09:05 | 17-AUG-22 09:00 | 7 | 8 | days | EHT |
| | 4 | 09-AUG-22 09:30 | 17-AUG-22 09:00 | 7 | 8 | days | EHT |
| | 5 | 09-AUG-22 09:30 | 17-AUG-22 09:00 | 7 | 8 | days | EHT |
| | 6 | 09-AUG-22 10:10 | 17-AUG-22 09:00 | 7 | 8 | days | EHT |
| | 7 | 09-AUG-22 10:30 | 17-AUG-22 09:00 | 7 | 8 | days | EHT |
| | 21 | 10-AUG-22 13:30 | 18-AUG-22 09:26 | 7 | 8 | days | EHT |
| | 22 | 10-AUG-22 13:30 | 18-AUG-22 09:26 | 7 | 8 | days | EHT |
| Total Suspended Solids | 1 | 09-AUG-22 08:40 | 17-AUG-22 09:00 | 7 | 8 | days | EHT |
| | 3 | 09-AUG-22 09:05 | 17-AUG-22 09:00 | 7 | 8 | days | EHT |
| | 4 | 09-AUG-22 09:30 | 17-AUG-22 09:00 | 7 | 8 | days | EHT |
| | 5 | 09-AUG-22 09:30 | 17-AUG-22 09:00 | 7 | 8 | days | EHT |
| | 6 | 09-AUG-22 10:10 | 17-AUG-22 09:00 | 7 | 8 | days | EHT |
| | 7 | 09-AUG-22 10:30 | 17-AUG-22 09:00 | 7 | 8 | days | EHT |
| | 21 | 10-AUG-22 13:30 | 18-AUG-22 09:26 | 7 | 8 | days | EHT |
| | 22 | 10-AUG-22 13:30 | 18-AUG-22 09:26 | 7 | 8 | days | EHT |
| Turbidity | 1 | 09-AUG-22 08:40 | 15-AUG-22 10:30 | 3 | 6 | days | EHTR |
| | 3 | 09-AUG-22 09:05 | 15-AUG-22 10:30 | 3 | 6 | days | EHTR |
| | 4 | 09-AUG-22 09:30 | 15-AUG-22 10:30 | 3 | 6 | days | EHTL |
| | 5 | 09-AUG-22 09:30 | 15-AUG-22 10:30 | 3 | 6 | days | EHTL |
| | 6 | 09-AUG-22 10:10 | 15-AUG-22 10:30 | 3 | 6 | days | EHTL |
| | 7 | 09-AUG-22 10:30 | 15-AUG-22 10:30 | 3 | 6 | days | EHTL |
| | 8 | 09-AUG-22 10:30 | 15-AUG-22 10:30 | 3 | 6 | days | EHTL |
| | 9 | 09-AUG-22 10:55 | 15-AUG-22 10:30 | 3 | 6 | days | EHTL |
| | 10 | 09-AUG-22 11:30 | 15-AUG-22 10:30 | 3 | 6 | days | EHTL |
| | 11 | 09-AUG-22 12:00 | 15-AUG-22 10:30 | 3 | 6 | days | EHTL |
| | 14 | 10-AUG-22 00:30 | 15-AUG-22 10:30 | 3 | 5 | days | EHTL |
| | 16 | 10-AUG-22 11:30 | 15-AUG-22 10:30 | 3 | 5 | days | EHT |
| | 18 | 10-AUG-22 11:45 | 15-AUG-22 10:30 | 3 | 5 | days | EHT |
| | 19 | 10-AUG-22 12:00 | 15-AUG-22 10:30 | 3 | 5 | days | EHT |
| | 20 | 10-AUG-22 12:00 | 15-AUG-22 10:30 | 3 | 5 | days | EHT |

Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0
 Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|--|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Turbidity | | | | | | | |
| | 21 | 10-AUG-22 13:30 | 15-AUG-22 10:30 | 3 | 5 | days | EHT |
| | 22 | 10-AUG-22 13:30 | 15-AUG-22 10:30 | 3 | 5 | days | EHT |
| Leachable Anions & Nutrients | | | | | | | |
| Nitrate in Water by IC | | | | | | | |
| | 7 | 09-AUG-22 10:30 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| | 8 | 09-AUG-22 10:30 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| | 9 | 09-AUG-22 10:55 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| | 10 | 09-AUG-22 11:30 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| | 11 | 09-AUG-22 12:00 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| | 12 | 09-AUG-22 12:10 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| | 14 | 10-AUG-22 00:30 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| Nitrite in Water by IC | | | | | | | |
| | 7 | 09-AUG-22 10:30 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| | 8 | 09-AUG-22 10:30 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| | 9 | 09-AUG-22 10:55 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| | 10 | 09-AUG-22 11:30 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| | 11 | 09-AUG-22 12:00 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| | 12 | 09-AUG-22 12:10 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| | 14 | 10-AUG-22 00:30 | 15-AUG-22 16:00 | 5 | 6 | days | EHT |
| Cyanides | | | | | | | |
| Free Cyanide by Continuous Flow Analyzer | | | | | | | |
| | 1 | 09-AUG-22 08:40 | 17-AUG-22 16:00 | 7 | 8 | days | EHT |
| | 3 | 09-AUG-22 09:05 | 17-AUG-22 16:00 | 7 | 8 | days | EHT |
| | 4 | 09-AUG-22 09:30 | 17-AUG-22 16:00 | 7 | 8 | days | EHT |
| | 5 | 09-AUG-22 09:30 | 17-AUG-22 16:00 | 7 | 8 | days | EHT |
| | 6 | 09-AUG-22 10:10 | 17-AUG-22 16:00 | 7 | 8 | days | EHT |
| | 7 | 09-AUG-22 10:30 | 17-AUG-22 16:00 | 7 | 8 | days | EHT |
| | 8 | 09-AUG-22 10:30 | 17-AUG-22 16:00 | 7 | 8 | days | EHT |
| | 9 | 09-AUG-22 10:55 | 17-AUG-22 16:00 | 7 | 8 | days | EHT |
| | 10 | 09-AUG-22 11:30 | 17-AUG-22 16:00 | 7 | 8 | days | EHT |
| | 11 | 09-AUG-22 12:00 | 17-AUG-22 16:00 | 7 | 8 | days | EHT |
| | 12 | 09-AUG-22 12:10 | 17-AUG-22 16:00 | 7 | 8 | days | EHT |
| | 14 | 10-AUG-22 00:30 | 17-AUG-22 16:00 | 7 | 8 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon for MISA | | | | | | | |
| | 11 | 09-AUG-22 12:00 | 17-AUG-22 00:00 | 3 | 8 | days | EHTL |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand (BOD) | | | | | | | |
| | 6 | 09-AUG-22 10:10 | 14-AUG-22 14:30 | 4 | 5 | days | EHT |
| | 7 | 09-AUG-22 10:30 | 14-AUG-22 14:30 | 4 | 5 | days | EHT |
| | 8 | 09-AUG-22 10:30 | 14-AUG-22 14:30 | 4 | 5 | days | EHT |
| | 9 | 09-AUG-22 10:55 | 14-AUG-22 14:30 | 4 | 5 | days | EHT |
| | 10 | 09-AUG-22 11:30 | 14-AUG-22 14:30 | 4 | 5 | days | EHT |
| | 11 | 09-AUG-22 12:00 | 14-AUG-22 14:30 | 4 | 5 | days | EHT |
| | 12 | 09-AUG-22 12:10 | 14-AUG-22 14:30 | 4 | 5 | days | EHT |
| | 14 | 10-AUG-22 00:30 | 14-AUG-22 14:30 | 4 | 5 | days | EHT |

Legend & Qualifier Definitions:

Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2728012 were received on 12-AUG-22 09:40.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Your P.O. #: L2728012
Your C.O.C. #: N/a

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2022/09/09
Report #: R7289153
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2N6250

Received: 2022/08/19, 10:45

Sample Matrix: Water
Samples Received: 4

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|-----------------|---------------------------|--------------------------|---|--------------------------|
| Radium Isotopes by Alpha Spectrometry (1) | 4 | N/A | 2022/09/08 | BQL SOP-00006 BQL SOP-00017 BQL SOP-00032 | Alpha Spectrometry |

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Radium-226 results have not been corrected for blanks.



Your P.O. #: L2728012
Your C.O.C. #: N/a

Attention: Christine Paradis

ALS Laboratory Group
Environmental Div.
1081 Barton St.
Thunder Bay, ON
Canada P7B 5N3

Report Date: 2022/09/09
Report #: R7289153
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2N6250
Received: 2022/08/19, 10:45

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mayank Nigam, Project Manager
Email: Mayank.Nigam@bureauveritas.com
Phone# (905) 826-3080

=====

This report has been generated and distributed using a secure automated process.

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For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C2N6250
Report Date: 2022/09/09

ALS Laboratory Group
Your P.O. #: L2728012

RESULTS OF ANALYSES OF WATER

| Bureau Veritas ID | | TML983 | TML984 | TML985 | TML986 | | |
|--|-------|--------------------------------|---------------------------------|---------------------------------|----------------------------------|-------|----------|
| Sampling Date | | 2022/08/09 | 2022/08/09 | 2022/08/10 | 2022/08/10 | | |
| COC Number | | N/a | N/a | N/a | N/a | | |
| | UNITS | L2728012-2 SW20_SW_20220809 | L2728012-13 SW23_SW_20220809 | L2728012-15 SW24_SW_20220809 | L2728012-17 SW22A_SW_20220809 | RDL | QC Batch |
| Radium-226 | Bq/L | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | 8207385 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch | | | | | | | |



BUREAU
VERITAS

Bureau Veritas Job #: C2N6250
Report Date: 2022/09/09

ALS Laboratory Group
Your P.O. #: L2728012

TEST SUMMARY

Bureau Veritas ID: TML983
Sample ID: L2728012-2 SW20_SW_20220809
Matrix: Water

Collected: 2022/08/09
Shipped:
Received: 2022/08/19

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---------------------------------------|-----------------|---------|-----------|---------------|---------------|
| Radium Isotopes by Alpha Spectrometry | AS | 8207385 | N/A | 2022/09/08 | Sarah Simpson |

Bureau Veritas ID: TML984
Sample ID: L2728012-13 SW23_SW_20220809
Matrix: Water

Collected: 2022/08/09
Shipped:
Received: 2022/08/19

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---------------------------------------|-----------------|---------|-----------|---------------|---------------|
| Radium Isotopes by Alpha Spectrometry | AS | 8207385 | N/A | 2022/09/08 | Sarah Simpson |

Bureau Veritas ID: TML985
Sample ID: L2728012-15 SW24_SW_20220809
Matrix: Water

Collected: 2022/08/10
Shipped:
Received: 2022/08/19

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---------------------------------------|-----------------|---------|-----------|---------------|---------------|
| Radium Isotopes by Alpha Spectrometry | AS | 8207385 | N/A | 2022/09/08 | Sarah Simpson |

Bureau Veritas ID: TML986
Sample ID: L2728012-17 SW22A_SW_20220809
Matrix: Water

Collected: 2022/08/10
Shipped:
Received: 2022/08/19

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---------------------------------------|-----------------|---------|-----------|---------------|---------------|
| Radium Isotopes by Alpha Spectrometry | AS | 8207385 | N/A | 2022/09/08 | Sarah Simpson |



BUREAU
VERITAS

Bureau Veritas Job #: C2N6250
Report Date: 2022/09/09

ALS Laboratory Group
Your P.O. #: L2728012

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C2N6250
Report Date: 2022/09/09

ALS Laboratory Group
Your P.O. #: L2728012

QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|------------|---------------|--------|----------|-------|-----------|
| 8207385 | SSZ | Spiked Blank | Radium-226 | 2022/09/08 | | 98 | % | 85 - 115 |
| 8207385 | SSZ | Method Blank | Radium-226 | 2022/09/08 | <0.010 | | Bq/L | |
| 8207385 | SSZ | RPD | Radium-226 | 2022/09/08 | NC | | % | N/A |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times$ RDL).



BUREAU
VERITAS

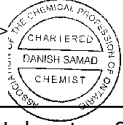
Bureau Veritas Job #: C2N6250
Report Date: 2022/09/09

ALS Laboratory Group
Your P.O. #: L2728012

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

<original signed by>



Danish Samad, Laboratory Supervisor

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



CHAIN OF CUSTODY RECORD - ALS-447843086

L2728012

Project Name: Rainy River
 Location: Chapple
 Project Number:
 Project Manager:
 PO Number:
 Project:
 Turn Around Time (days): 10 Business Days
 Shipping Company:
 Shipping Date: 8/11/2022 7:24:00 AM
 COC Number: ALS-447843086

| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | Containers | | Number of Containers | Comments |
|---------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------|---------------|----------------------|----------|
| | | | | | | SW Kit | Ra-226 Bottle | | |
| | | | | | | Filtered | N | N | |
| | | | | | | Preservatives | | | |
| | | | | | | NG-SW-P-TB | | RA226-MIMER-BE | |
| 1 SW20_SW_20220809 | 2.25 | 6.82 | 18.93 | 08/09/2022 08:40 | SW | X | | | 12 |
| 2 SW20_SW_20220809 | 2.25 | 6.82 | 18.93 | 08/09/2022 08:40 | SW | | | X | 12 |
| 3 SW10_SW_20220809 | 6.58 | 6.83 | 19.65 | 08/09/2022 09:05 | SW | X | | | 11 |
| 4 SW16_SW_20220809 | 8.43 | 6.12 | 20.9 | 08/09/2022 09:30 | SW | X | | | 11 |
| 5 SW28A_SW_20220809 | 8.46 | 7.31 | 19.06 | 08/09/2022 09:30 | SW | X | | | 11 |
| 6 SW02_SW_20220809 | 3.29 | 6.71 | 17.93 | 08/09/2022 10:10 | SW | X | | | 11 |

| | | | | | | | | | |
|-------------|--|----------------------|--|-----------------------------|--|------|--|--|--|
| Signature | | Data/Time | | Shipping Details | | ATTN | | Special Instructions: | |
| Shipped by | | 8/11/2022 7:24:00 AM | | Method of Shipment: Courier | | | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com | |
| Received by | | | | On Ice: yes / no | | | | | |
| KCI7 | | 8/12/22 9:40 | | Shipped: Air/Ground | | | | | |
| | | | | Lab Name: ALS Thunder Bay | | | | | |
| | | | | Lab Phone: | | | | | |



10708010 0000

CHAIN OF CUSTODY RECORD - ALS-447843086

L2728012

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 8/11/2022 7:24:00 AM COC Number: ALS-447843086 | | | | | | Containers Filtered Preservatives | | SW Kit | Ra-226 Bottle | | | | | | | | Number of Containers | Comments |
|---|-------------------------------|---------------------|-----------------|------------------|--------|--|---------------|--------|---------------|--|--|--|--|----|--|--|----------------------|----------|
| | | | | | | N | N | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | | |
| 7 SW17_SW_20220809 | 7.57 | 6.12 | 21.29 | 08/09/2022 10:30 | SW | X | | | | | | | | 11 | | | | |
| 8 SW25_SW_20220809 | 6.26 | 7.11 | 18.92 | 08/09/2022 10:30 | SW | X | | | | | | | | 11 | | | | |
| 9 SW26_SW_20220809 | 6.08 | 7.22 | 19.05 | 08/09/2022 10:55 | SW | X | | | | | | | | 11 | | | | |
| 10 SW15_SW_20220809 | 4.73 | 6.61 | 21.66 | 08/09/2022 11:30 | SW | X | | | | | | | | 11 | | | | |
| 11 FB_SW_20220809 | | | | 08/09/2022 12:00 | SW | X | | | | | | | | 11 | | | | |
| 12 SW23_SW_20220809 | 5.03 | 6.87 | 21.26 | 08/09/2022 12:10 | SW | X | | | | | | | | 12 | | | | |

| | | | | | | |
|-------------|------|----------------------|---|--|------|--|
| Signature | | Data/Time | Shipping Details | | ATTN | Special Instructions: |
| Shipped by | 11.8 | 8/11/2022 7:24:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | KCF | 8/11/22 9:40 | | | | |



CHAIN OF CUSTODY RECORD - ALS-447843086

L2728012

Project Name: Rainy River
 Location: Chapple
 Project Number:
 Project Manager:
 PO Number:
 Project:
 Turn Around Time (days): 10 Business Days
 Shipping Company:
 Shipping Date: 8/11/2022 7:24:00 AM
 COC Number: ALS-447843086

| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | Containers | | Number of Containers | Comments |
|----------------------|-------------------------------|---------------------|-----------------|------------------|--------|---------------|---------------|----------------------|----------|
| | | | | | | SW Kit | Ra-226 Bottle | | |
| | | | | | | Filtered | N | N | |
| | | | | | | Preservatives | | | |
| | | | | | | NG-SW-P-TB | | RA226-MMER-BE | |
| 13 SW23_SW_20220809 | 5.03 | 6.87 | 21.26 | 08/09/2022 12:10 | SW | | X | | 12 |
| 14 SW24_SW_20220809 | 4.28 | 6.8 | 21.82 | 08/10/2022 00:30 | SW | X | | | 12 |
| 15 SW24_SW_20220809 | 4.28 | 6.8 | 21.82 | 08/10/2022 00:30 | SW | | X | | 12 |
| 16 SW22A_SW_20220809 | 4.34 | 6.68 | 19.97 | 08/10/2022 11:30 | SW | X | | | 12 |
| 17 SW22A_SW_20220809 | 4.34 | 6.68 | 19.97 | 08/10/2022 11:30 | SW | | X | | 12 |
| 18 SW21A_SW_20220809 | 3.25 | 6.56 | 20.05 | 08/10/2022 11:45 | SW | X | | | 11 |

| | | | | |
|----------------------------|----------------------|---|------|--|
| Signature | Data/Time | Shipping Details | ATTN | Special Instructions: |
| Shipped by <i>11.8</i> | 8/11/2022 7:24:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by <i>KC17</i> | <i>8/11/22</i> | <i>9:40</i> | | |



12728012 COFC

IN OF CUSTODY RECORD - ALS-447843086

L2728012

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 8/11/2022 7:24:00 AM COC Number: ALS-447843086 | | | | | | Containers Filtered Preservatives | | SW Kit | Ra-226 Bottle | | | | | | | | Number of Containers | Comments |
|---|-------------------------------|---------------------|-----------------|------------------|--------|---|---------------|--------|---------------|--|--|--|----|--|--|--|----------------------|----------|
| | | | | | | N | N | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | | |
| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | | |
| 19 SW06_SW_20220809 | | | | 08/10/2022 12:00 | SW | X | | | | | | | 11 | | | | | |
| 20 SW27_SW_20220809 | | | | 08/10/2022 12:00 | SW | X | | | | | | | 11 | | | | | |
| 21 SW03_SW_20220809 | 6 | 7.02 | 22.69 | 08/10/2022 13:30 | SW | X | | | | | | | 11 | | | | | |
| 22 TB_SW_20220809 | | | | 08/11/2022 12:00 | SW | X | | | | | | | 11 | | | | | |

Sample Receipt Details (ALS use only)

| | | | | |
|-------------|----------------------|--|------|--|
| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
| Shipped by | 8/11/2022 7:24:00 AM | Method of Shipment: Courier | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | | On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | |



Lv



12728012 COFC

L2728012

CHAIN OF CUSTODY RECORD - ALS-447843086

| |
|--|
| Drinking Water (DW) Samples (client use) |
| Are samples taken from a Regulated DW System? Yes <input checked="" type="checkbox"/> No |
| Are samples for human consumption / use? Yes <input checked="" type="checkbox"/> No |
| Samples from a Regulated DW System require an Authorized DW COC form |

| | | | |
|--|--|------------------------------|--|
| Cooling Method: <input type="checkbox"/> None <input type="checkbox"/> Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Frozen <input type="checkbox"/> Cooling Initiated | | | |
| Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Cooler Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA Sample Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA | | | |
| Initial Cooler Temperatures °C | | Final Cooler Temperatures °C | |
| | | | |

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|----------------------|-----------------------------|------|---|
| Shipped by | 8/11/2022 7:24:00 AM | Method of Shipment: Courier | | |
| | | On Ice: yes / no | | |
| | | Shipped: Air/Ground | | |
| Received by | | Lab Name: ALS Thunder Bay | | Email invoice to: rainyriver.accounts1@newgold.com |
| | | Lab Phone: | | Email Report to: rainyriver.labresults@newgold.com |



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 09-SEP-22
Report Date: 09-NOV-22 13:36 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2732174
Project P.O. #: 4500062842
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:

<original signed by>

—
Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|----------|-----------|-----------|----------|
| L2732174-1 SW16_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 09:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 6.63 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 8.54 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 19.66 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |
| Color, True | 41.4 | | 2.0 | CU | | 10-SEP-22 | R5857651 |
| Conductivity | 65.7 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862436 |
| Hardness (as CaCO3) | 26.4 | | 0.51 | mg/L | | 26-SEP-22 | |
| pH | 7.56 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862436 |
| Total Suspended Solids | 7.0 | | 3.0 | mg/L | | 10-SEP-22 | R5857721 |
| Total Dissolved Solids | 52 | | 10 | mg/L | | 10-SEP-22 | R5857722 |
| Turbidity | 5.67 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 24.7 | | 1.0 | mg/L | | 16-SEP-22 | R5862436 |
| Unionized ammonia | <0.0029 | | 0.0029 | mg/L | | 20-SEP-22 | |
| Ammonia, Total (as N) | 0.006 | <DL | 0.020 | mg/L | | 16-SEP-22 | R5862560 |
| Chloride (Cl) | 1.82 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.028 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | 0.014 | <DL | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 4.65 | | 1.8 | mg/L | 16-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0015 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0171 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | 2.55 | <T | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0003 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 12.0 | | 0.50 | mg/L | 06-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 12.2 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866432 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.170 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000035 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00054 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.00990 | <DL | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | 0.0060 | <DL | 0.050 | mg/L | | 24-SEP-22 | R5866342 |
| Cadmium (Cd)-Total | 0.000002 | <DL | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 7.47 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-1 SW16_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 09:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Cesium (Cs)-Total | 0.0000320 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00060 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000100 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00092 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 0.251 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00012 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0010 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 2.26 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.0180 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | 0.000110 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00074 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 0.82 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00222 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000135 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 1.92 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 2.50 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.0225 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 1.0 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.00466 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.0000855 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00080 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | <0.0005 | <W | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000208 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0238 | <T | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.000457 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.00807 | <DL | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | <0.0005 | <W | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-1 SW16_SW_20220906 Sampled By: Client on 06-SEP-22 @ 09:55 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Calcium (Ca)-Dissolved | 7.13 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000024 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00078 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.0670 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0010 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 2.09 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.00254 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |
| Molybdenum (Mo)-Dissolved | 0.000116 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00048 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 0.77 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00176 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000090 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 1.70 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 2.47 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.0219 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 0.6 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | 0.000004 | <DL | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00074 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.0000765 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00030 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0004 | <DL | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000142 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 34 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2732174-2 SW10_SW_20220906 Sampled By: Client on 06-SEP-22 @ 11:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 5.62 | | 0 | mg/L | | 11-SEP-22 | R5857698 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|----------|-----------|-----------|----------|
| L2732174-2 SW10_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 11:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.74 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 18.04 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |
| Color, True | 130 | | 2.0 | CU | | 10-SEP-22 | R5857651 |
| Conductivity | 341 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862436 |
| Hardness (as CaCO3) | 175 | | 0.51 | mg/L | | 23-SEP-22 | |
| pH | 8.36 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862436 |
| Total Suspended Solids | 1.0 | <DL | 3.0 | mg/L | | 10-SEP-22 | R5857721 |
| Total Dissolved Solids | 200 | | 20 | mg/L | | 10-SEP-22 | R5857722 |
| Turbidity | 2.49 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 153 | | 1.0 | mg/L | | 16-SEP-22 | R5862436 |
| Unionized ammonia | 0.000049 | | 0.000046 | mg/L | | 20-SEP-22 | |
| Ammonia, Total (as N) | 0.022 | <T | 0.020 | mg/L | | 16-SEP-22 | R5862560 |
| Chloride (Cl) | 9.75 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.060 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 1.35 | <DL | 1.8 | mg/L | 16-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0171 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0463 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | 2.10 | <T | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | 0.0001 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 33.7 | | 0.50 | mg/L | 06-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 32.4 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866432 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0542 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000055 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00189 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0161 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | 0.000001 | <DL | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 40.8 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | 0.0000060 | <DL | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-2 SW10_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 11:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Chromium (Cr)-Total | 0.00046 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000205 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00050 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 0.393 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00005 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0070 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 17.2 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.0518 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | 0.000400 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00180 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.050 | | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 1.71 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00167 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000190 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 3.30 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 7.09 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.119 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 1.2 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.00171 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.000468 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00075 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0025 | <DL | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000308 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0356 | | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000105 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00180 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0166 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | 0.000016 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000052 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0170 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000090 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 42.1 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-2 SW10_SW_20220906 Sampled By: Client on 06-SEP-22 @ 11:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00024 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000198 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00050 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.300 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0068 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 17.0 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.0455 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |
| Molybdenum (Mo)-Dissolved | 0.000422 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00166 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.040 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 1.71 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00152 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000250 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 3.36 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000040 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 7.18 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.121 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 0.8 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | 0.000032 | <DL | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | 0.000025 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00054 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.000448 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00050 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0042 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000384 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000487 | | 0.000020 | ug/L | 06-OCT-22 | 13-OCT-22 | R5873836 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 87 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2732174-3 SW17_SW_20220906 Sampled By: Client on 06-SEP-22 @ 11:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|----------|-----------|-----------|----------|
| L2732174-3 SW17_SW_20220906 Sampled By: Client on 06-SEP-22 @ 11:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 6.78 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 8.18 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 19.73 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |
| Color, True | 63.1 | | 2.0 | CU | | 10-SEP-22 | R5857651 |
| Conductivity | 77.2 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862436 |
| Hardness (as CaCO3) | 33.5 | | 0.51 | mg/L | | 26-SEP-22 | |
| pH | 7.62 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862436 |
| Total Suspended Solids | 8.5 | | 3.0 | mg/L | | 10-SEP-22 | R5857721 |
| Total Dissolved Solids | 64 | | 13 | mg/L | | 10-SEP-22 | R5857722 |
| Turbidity | 7.89 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 30.1 | | 1.0 | mg/L | | 16-SEP-22 | R5862436 |
| Unionized ammonia | <0.0014 | | 0.0014 | mg/L | | 20-SEP-22 | |
| Ammonia, Total (as N) | 0.012 | <DL | 0.020 | mg/L | | 16-SEP-22 | R5862560 |
| Chloride (Cl) | 2.13 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.031 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | 0.014 | <DL | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 0.65 | <DL | 1.8 | mg/L | 16-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0017 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0238 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | 3.30 | <T | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 15.9 | | 0.50 | mg/L | 06-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 16.5 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866432 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.202 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000050 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00068 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0108 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | 0.000004 | <DL | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 9.04 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-3 SW17_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 11:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Cesium (Cs)-Total | 0.0000355 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00074 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000130 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00098 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 0.354 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00015 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0010 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 2.80 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.0290 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | 0.000115 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00080 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.020 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 0.81 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00222 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000075 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 2.14 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 2.57 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.0244 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 0.8 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | 0.000015 | <DL | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.00566 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.0000870 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00075 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0005 | <DL | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000254 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0302 | | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000055 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.000607 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.00894 | <DL | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000016 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0020 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-3 SW17_SW_20220906 Sampled By: Client on 06-SEP-22 @ 11:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Calcium (Ca)-Dissolved | 8.87 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00023 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000060 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00078 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.126 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0012 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 2.76 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.0159 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |
| Molybdenum (Mo)-Dissolved | 0.000144 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00060 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 0.76 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00169 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000140 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 1.97 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 2.61 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.0242 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 0.6 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | 0.000010 | <DL | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | 0.000060 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00068 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.0000775 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00038 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0066 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000154 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 39 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| Report Remarks : DTC for Zn - Dissolved concentration exceeds total. Results were confirmed by re-analysis. Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2732174-4 SW28A_SW_20220906 Sampled By: Client on 06-SEP-22 @ 11:40 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2732174-4 SW28A_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 11:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 8.06 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 7.82 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 16.22 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |
| Color, True | 103 | | 2.0 | CU | | 10-SEP-22 | R5857651 |
| Conductivity | 354 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862436 |
| Hardness (as CaCO3) | 196 | | 0.51 | mg/L | | 26-SEP-22 | |
| pH | 8.44 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862436 |
| Total Suspended Solids | 16.5 | | 3.0 | mg/L | | 10-SEP-22 | R5857721 |
| Total Dissolved Solids | 232 | | 20 | mg/L | | 10-SEP-22 | R5857722 |
| Turbidity | 11.3 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 173 | | 1.0 | mg/L | | 16-SEP-22 | R5862436 |
| Unionized ammonia | 0.00050 | | 0.00047 | mg/L | | 20-SEP-22 | |
| Ammonia, Total (as N) | 0.022 | <T | 0.020 | mg/L | | 16-SEP-22 | R5862560 |
| Chloride (Cl) | 5.29 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.106 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 1.25 | <DL | 1.8 | mg/L | 16-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0051 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0221 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | 2.15 | <T | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | 0.0002 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 33.1 | | 0.50 | mg/L | 06-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 27.2 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866432 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.224 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00182 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0239 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | 0.0000058 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | 0.000005 | <DL | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 44.3 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-4 SW28A_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 11:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Cesium (Cs)-Total | 0.0000415 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00082 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000265 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00062 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 0.578 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00015 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0082 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 19.1 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.0548 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | 0.000810 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00156 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.020 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 1.05 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00219 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000165 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 5.84 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 2.73 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.162 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 1.0 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.00582 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.000840 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00125 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000368 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0288 | <T | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000045 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00163 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0224 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000012 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0135 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-4 SW28A_SW_20220906 Sampled By: Client on 06-SEP-22 @ 11:40 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Calcium (Ca)-Dissolved | 45.6 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000152 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00054 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.214 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0078 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 20.0 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.0286 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |
| Molybdenum (Mo)-Dissolved | 0.000850 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00118 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 1.03 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00146 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000165 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 5.70 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 2.80 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.166 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 1.4 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | 0.00002 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | 0.000004 | <DL | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | 0.000075 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00056 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.000811 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00062 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0086 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000236 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 71 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| Report Remarks : DTC for Zn - Dissolved concentration exceeds total. Results were confirmed by re-analysis. | | | | | | | |
| L2732174-5 FB_SW_20220906 Sampled By: Client on 06-SEP-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|----------|-----------|-----------|----------|
| L2732174-5 FB_SW_20220906 Sampled By: Client on 06-SEP-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 10-SEP-22 | R5857651 |
| Conductivity | <1.0 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862436 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 23-SEP-22 | |
| pH | 5.95 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862436 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 10-SEP-22 | R5857721 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 10-SEP-22 | R5857722 |
| Turbidity | 0.25 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | <1.0 | | 1.0 | mg/L | | 16-SEP-22 | R5862436 |
| Ammonia, Total (as N) | <0.002 | <W | 0.020 | mg/L | | 16-SEP-22 | R5862560 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | <0.05 | <W | 0.18 | mg/L | 19-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | <0.0001 | <W | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 06-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 26-SEP-22 | R5866432 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | <0.0002 | <W | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 0.006 | <DL | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00012 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | <0.0005 | <W | 0.020 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-5 FB_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Lead (Pb)-Total | <0.00001 | <W | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | <0.0002 | <W | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | <0.00002 | <W | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | <0.01 | <W | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | <0.000002 | <W | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | <0.000005 | <W | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 0.020 | <DL | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 0.025 | <DL | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.000025 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.00003 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | <0.00005 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | <0.0005 | <W | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | <0.000002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0006 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | <0.0000002 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.000025 | <DL | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | <0.0005 | <W | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | <0.0000005 | <W | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 0.020 | <DL | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00013 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2732174-5 FB_SW_20220906 Sampled By: Client on 06-SEP-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Iron (Fe)-Dissolved | 0.0005 | <DL | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | <0.00001 | <W | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 0.0055 | <DL | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |
| Molybdenum (Mo)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000015 | <DL | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 0.040 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 0.015 | <DL | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.00004 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | 0.000040 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00002 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.0000010 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | <10 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2732174-6 SW06_SW_20220906 Sampled By: Client on 06-SEP-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 99.8 | | 2.0 | CU | | 12-SEP-22 | R5858663 |
| Conductivity | 355 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862436 |
| Hardness (as CaCO3) | 192 | | 0.51 | mg/L | | 23-SEP-22 | |
| pH | 8.43 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862436 |
| Total Suspended Solids | 7.5 | | 3.0 | mg/L | | 10-SEP-22 | R5857721 |
| Total Dissolved Solids | 248 | | 20 | mg/L | | 10-SEP-22 | R5857722 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-6 SW06_SW_20220906 Sampled By: Client on 06-SEP-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Turbidity | 8.18 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO ₃) | 174 | | 1.0 | mg/L | | 16-SEP-22 | R5862436 |
| Ammonia, Total (as N) | 0.022 | <T | 0.020 | mg/L | | 16-SEP-22 | R5862560 |
| Chloride (Cl) | 5.36 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.091 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | 0.006 | <DL | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 1.10 | | 0.18 | mg/L | 19-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0028 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0204 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO ₄) | 2.05 | <T | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0008 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 27.0 | | 0.50 | mg/L | 06-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 27.0 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866432 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO ₃) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.217 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000035 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00177 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0238 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | 0.000002 | <DL | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 45.0 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | 0.0000345 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00068 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000240 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00060 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 0.534 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00014 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0078 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 19.7 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.0470 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | 0.000795 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-6 SW06_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Nickel (Ni)-Total | 0.00166 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.020 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 1.06 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00206 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000180 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 5.72 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 2.74 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.157 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 0.6 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.00518 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.000843 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00125 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0025 | <DL | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000338 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0482 | | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00154 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0222 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0125 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000020 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 44.2 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000142 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00050 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.199 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0076 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 19.8 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.0263 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2732174-6 SW06_SW_20220906 Sampled By: Client on 06-SEP-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Molybdenum (Mo)-Dissolved | 0.000872 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00118 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 1.01 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00143 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000145 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 5.69 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 2.71 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.165 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 0.6 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | 0.000030 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00048 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.000810 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00054 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0044 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000228 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 74 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2732174-7 SW15_SW_20220906 Sampled By: Client on 06-SEP-22 @ 12:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 4.5 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 8.03 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 20.99 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |
| Color, True | 304 | | 2.0 | CU | | 12-SEP-22 | R5858663 |
| Conductivity | 195 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862436 |
| Hardness (as CaCO3) | 111 | | 0.51 | mg/L | | 23-SEP-22 | |
| pH | 8.00 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862436 |
| Total Suspended Solids | 10.0 | | 3.0 | mg/L | | 10-SEP-22 | R5857721 |
| Total Dissolved Solids | 188 | | 13 | mg/L | | 10-SEP-22 | R5857722 |
| Turbidity | 13.5 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-7 SW15_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 92.0 | | 1.0 | mg/L | | 16-SEP-22 | R5862436 |
| Unionized ammonia | 0.0015 | | 0.0011 | mg/L | | 20-SEP-22 | |
| Ammonia, Total (as N) | 0.028 | <T | 0.020 | mg/L | | 16-SEP-22 | R5862560 |
| Chloride (Cl) | 2.08 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.040 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 1.30 | | 0.18 | mg/L | 19-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0280 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0824 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | 2.45 | <T | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0012 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0014 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 47.3 | | 0.50 | mg/L | 06-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 45.6 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866432 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.371 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000115 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00259 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0175 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | 0.0000202 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | 0.000008 | <DL | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 25.9 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | 0.0000405 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00088 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000485 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00146 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 1.14 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00042 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0042 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 11.3 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.155 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | 0.000275 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00212 | <T | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-7 SW15_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Phosphorus (P)-Total | 0.115 | | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 1.51 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00207 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000305 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 6.16 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000003 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 2.72 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.0581 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 1.2 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00013 | | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.0102 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.000272 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00210 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0020 | <DL | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000782 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0680 | | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000120 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00224 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0157 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | 0.000054 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000014 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0080 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000140 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 25.9 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | 0.0000070 | <DL | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00034 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000316 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00126 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.629 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00019 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0044 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 11.3 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.111 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |
| Molybdenum (Mo)-Dissolved | 0.000394 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2732174-7 SW15_SW_20220906 Sampled By: Client on 06-SEP-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Nickel (Ni)-Dissolved | 0.00166 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.055 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 1.34 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00134 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000260 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 6.21 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 2.60 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.0599 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 0.8 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | 0.00003 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | 0.000006 | <DL | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00013 | | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | 0.000245 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00232 | | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.000254 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00130 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0076 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000702 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 5.1 | DLIS | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 121 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2732174-8 SW20_SW_20220906 Sampled By: Client on 06-SEP-22 @ 12:20 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 2.25 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 6.96 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 16.66 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |
| Color, True | 134 | | 2.0 | CU | | 12-SEP-22 | R5858663 |
| Conductivity | 329 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862436 |
| Hardness (as CaCO3) | 157 | | 0.51 | mg/L | | 23-SEP-22 | |
| pH | 8.31 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862436 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 10-SEP-22 | R5857721 |
| Total Dissolved Solids | 236 | | 20 | mg/L | | 10-SEP-22 | R5857722 |
| Turbidity | 2.92 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 137 | | 1.0 | mg/L | | 16-SEP-22 | R5862436 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-8 SW20_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 12:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Unionized ammonia | 0.000083 | | 0.000068 | mg/L | | 20-SEP-22 | |
| Ammonia, Total (as N) | 0.024 | <T | 0.020 | mg/L | | 16-SEP-22 | R5862560 |
| Chloride (Cl) | 17.8 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.056 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 1.25 | | 0.18 | mg/L | 19-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0223 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0611 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | 0.80 | <T | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0009 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 35.3 | | 0.50 | mg/L | 06-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 35.5 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866432 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0960 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00177 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0188 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | 0.000001 | <DL | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 37.9 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | 0.0000105 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00042 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000440 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00018 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 0.677 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00007 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0052 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 15.3 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.215 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | 0.000205 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00158 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.060 | | 0.050 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-8 SW20_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 12:20 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Potassium (K)-Total | 1.49 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00198 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000195 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 5.19 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 10.3 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.0988 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.00268 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.000247 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00060 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0005 | <DL | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000286 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0258 | <T | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000050 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00163 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0182 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0110 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000040 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 37.2 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00021 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000340 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.395 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0054 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 15.4 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.154 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |
| Molybdenum (Mo)-Dissolved | 0.000250 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00136 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2732174-8 SW20_SW_20220906 Sampled By: Client on 06-SEP-22 @ 12:20 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Phosphorus (P)-Dissolved | 0.045 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 1.49 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00172 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000200 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 5.61 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 10.3 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.101 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 0.2 | <DL | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | 0.000055 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00060 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.000232 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00034 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0052 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000336 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000873 | | 0.000020 | ug/L | 06-OCT-22 | 13-OCT-22 | R5873836 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | DLIS | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 91 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2732174-9 SW20_SW_20220906 Sampled By: Client on 06-SEP-22 @ 12:20 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 2.25 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 6.96 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 16.66 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.01 | | 0.010 | Bq/L | | 04-NOV-22 | R5889197 |
| L2732174-10 SW23_SW_20220906 Sampled By: Client on 06-SEP-22 @ 13:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 4.71 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 8.35 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 18.23 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2732174-10 SW23_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 13:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 158 | | 2.0 | CU | | 12-SEP-22 | R5858663 |
| Conductivity | 313 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862436 |
| Hardness (as CaCO3) | 178 | | 0.51 | mg/L | | 23-SEP-22 | |
| pH | 8.29 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862436 |
| Total Suspended Solids | 7.0 | | 3.0 | mg/L | | 10-SEP-22 | R5857721 |
| Total Dissolved Solids | 240 | | 20 | mg/L | | 10-SEP-22 | R5857722 |
| Turbidity | 16.4 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 156 | | 1.0 | mg/L | | 16-SEP-22 | R5862436 |
| Unionized ammonia | 0.0039 | | 0.0018 | mg/L | | 20-SEP-22 | |
| Ammonia, Total (as N) | 0.044 | <T | 0.020 | mg/L | | 16-SEP-22 | R5862560 |
| Chloride (Cl) | 2.41 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.076 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | 0.006 | <DL | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 1.35 | | 0.18 | mg/L | 19-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0380 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.102 | | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | 2.55 | <T | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0013 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0016 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 38.7 | | 0.50 | mg/L | 14-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 39.4 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866432 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.458 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000100 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00354 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0208 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | 0.0000182 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | 0.000005 | <DL | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 42.4 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | 0.0000600 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00112 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000605 | <T | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00152 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-10 SW23_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 13:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Iron (Fe)-Total | 1.25 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00041 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0054 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 16.7 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.287 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | 0.000530 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00284 | <T | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.095 | | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 1.49 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00272 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000180 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 7.15 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 3.36 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.0937 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 1.2 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00010 | | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.0135 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.000516 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00220 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0020 | <DL | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000900 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0776 | | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000105 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00295 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0136 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0110 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 42.9 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | 0.0000060 | <DL | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00030 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000170 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2732174-10 SW23_SW_20220906 Sampled By: Client on 06-SEP-22 @ 13:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Copper (Cu)-Dissolved | 0.00124 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.522 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00015 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0050 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 17.1 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.0325 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |
| Molybdenum (Mo)-Dissolved | 0.000598 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00222 | <T | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.070 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 1.39 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00164 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000250 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 6.71 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 3.23 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.0964 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 0.8 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | 0.000004 | <DL | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00008 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00506 | | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.000502 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00110 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0004 | <DL | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000798 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 100 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2732174-11 SW23_SW_20220906 Sampled By: Client on 06-SEP-22 @ 13:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 4.71 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 8.35 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 18.23 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.01 | | 0.010 | Bq/L | | 04-NOV-22 | R5889197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|---------|----------|-----------|-----------|----------|
| L2732174-11 SW23_SW_20220906 Sampled By: Client on 06-SEP-22 @ 13:00 Matrix: SW | | | | | | | |
| Radiological Parameters | | | | | | | |
| L2732174-12 SW24_SW_20220906 Sampled By: Client on 06-SEP-22 @ 13:15 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 3.35 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 8.03 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 18.96 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |
| Color, True | 161 | | 2.0 | CU | | 12-SEP-22 | R5858663 |
| Conductivity | 312 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862360 |
| Hardness (as CaCO3) | 176 | | 0.51 | mg/L | | 23-SEP-22 | |
| pH | 8.38 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862360 |
| Total Suspended Solids | 5.0 | | 3.0 | mg/L | | 10-SEP-22 | R5857721 |
| Total Dissolved Solids | 240 | | 20 | mg/L | | 10-SEP-22 | R5857722 |
| Turbidity | 13.9 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 154 | | 1.0 | mg/L | | 16-SEP-22 | R5862360 |
| Unionized ammonia | 0.00174 | | 0.00092 | mg/L | | 22-SEP-22 | |
| Ammonia, Total (as N) | 0.038 | <T | 0.020 | mg/L | | 21-SEP-22 | R5865419 |
| Chloride (Cl) | 2.62 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.072 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 1.35 | | 0.18 | mg/L | 19-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0408 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0963 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | 2.55 | <T | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0011 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | 0.0004 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 38.8 | | 0.50 | mg/L | 14-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 39.8 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866432 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.407 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000100 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00340 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0193 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | 0.0000144 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-12 SW24_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 13:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | 0.000008 | <DL | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 41.5 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | 0.0000520 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00100 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000515 | <T | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00154 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 1.10 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00037 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0050 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 16.3 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.273 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | 0.000550 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00278 | <T | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.085 | | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 1.53 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00242 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000240 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 6.75 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 3.30 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.0943 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 1.4 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00010 | | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | 0.00028 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.0119 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.000507 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00210 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0010 | <DL | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000824 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.108 | | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000105 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00300 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0143 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-12 SW24_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 13:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0110 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000060 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 43.0 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | 0.0000100 | | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00032 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000182 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00132 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.548 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00017 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0050 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 16.6 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.0336 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |
| Molybdenum (Mo)-Dissolved | 0.000606 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00224 | <T | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.070 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 1.48 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00178 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000265 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 6.64 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 3.27 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.0981 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 1.0 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | 0.000004 | <DL | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00011 | | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | 0.000075 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00682 | | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.000503 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00118 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0016 | <DL | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000924 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000430 | | 0.000020 | ug/L | 06-OCT-22 | 13-OCT-22 | R5873836 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 105 | | 10 | mg/L | | 15-SEP-22 | R5861164 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|---|------------|---|---|-----------|--|--|
| L2732174-12 SW24_SW_20220906 Sampled By: Client on 06-SEP-22 @ 13:15 Matrix: SW Aggregate Organics Oil and Grease, Total Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | <0.2 | <W | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| L2732174-13 SW24_SW_20220906 Sampled By: Client on 06-SEP-22 @ 13:15 Matrix: SW Field Tests Dissolved Oxygen, Client Supplied pH, Client Supplied Temperature, Client Supplied Radiological Parameters Ra-226 | 3.35 8.03 18.96 <0.01 | | 0 0.10 0 0.010 | mg/L pH Degree C Bq/L | | 11-SEP-22 11-SEP-22 11-SEP-22 04-NOV-22 | R5857698 R5857698 R5857698 R5889197 |
| L2732174-14 SW03_SW_20220906 Sampled By: Client on 06-SEP-22 @ 14:00 Matrix: SW Field Tests Dissolved Oxygen, Client Supplied pH, Client Supplied Temperature, Client Supplied Physical Tests Color, True Conductivity Hardness (as CaCO3) pH Total Suspended Solids Total Dissolved Solids Turbidity Anions and Nutrients Alkalinity, Total (as CaCO3) Unionized ammonia Ammonia, Total (as N) Chloride (Cl) Fluoride (F) Nitrate (as N) Nitrite (as N) Total Kjeldahl Nitrogen Orthophosphate-Dissolved (as P) Phosphorus (P)-Total Sulfate (SO4) Cyanides Cyanide, Weak Acid Diss Cyanide, Total Cyanide, Free Organic / Inorganic Carbon | 2.61 8.03 18.32 121 356 188 8.42 5.5 248 11.6 168 0.00154 0.036 7.09 0.078 0.008 <0.001 1.25 0.0297 0.0728 4.85 0.0009 0.0012 0.0004 | | 0 0.10 0 2.0 1.0 0.51 0.10 3.0 20 0.10 1.0 0.00088 <T 0.020 0.10 0.020 <DL 0.020 0.010 0.18 0.0010 0.0030 0.30 <DL <DL <DL | mg/L pH Degree C CU umhos/cm mg/L pH units mg/L mg/L NTU mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | | 11-SEP-22 11-SEP-22 11-SEP-22 12-SEP-22 16-SEP-22 23-SEP-22 16-SEP-22 10-SEP-22 10-SEP-22 10-SEP-22 16-SEP-22 22-SEP-22 21-SEP-22 10-SEP-22 11-SEP-22 11-SEP-22 19-SEP-22 12-SEP-22 15-SEP-22 19-SEP-22 11-SEP-22 14-SEP-22 14-SEP-22 14-SEP-22 | R5857698 R5857698 R5857698 R5858663 R5862360 R5862360 R5857721 R5857722 R5857650 R5862360 R5862360 R5865419 R5858816 R5858816 R5858816 R5864016 R5861059 R5862936 R5858816 R5860356 R5860356 R5860356 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-14 SW03_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 14:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 37.9 | | 0.50 | mg/L | 06-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 36.3 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866432 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.390 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000115 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00246 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0236 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | 0.0000067 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | 0.000006 | <DL | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 47.8 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | 0.0000600 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00088 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000410 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00222 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 0.674 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00024 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0056 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 16.9 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.120 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | 0.000440 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00308 | <T | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.075 | | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 2.28 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00345 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000275 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 4.97 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 5.56 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.107 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 1.8 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.0113 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-14 SW03_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 14:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Uranium (U)-Total | 0.000560 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00185 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0020 | <DL | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000556 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0316 | | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000120 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00227 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0221 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0125 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000060 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 48.0 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00015 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000208 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00192 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.170 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00006 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0054 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 16.7 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.0877 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |
| Molybdenum (Mo)-Dissolved | 0.000484 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00268 | <T | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.055 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 2.18 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00262 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000245 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 4.50 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 5.50 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.110 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 1.8 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | 0.000004 | <DL | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | 0.000045 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00156 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2732174-14 SW03_SW_20220906 Sampled By: Client on 06-SEP-22 @ 14:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.000555 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00096 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0014 | <DL | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000408 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000676 | | 0.000020 | ug/L | 06-OCT-22 | 13-OCT-22 | R5873836 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 92 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2732174-15 SW26_SW_20220906 Sampled By: Client on 06-SEP-22 @ 14:45 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 9.05 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 8.03 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 19.23 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |
| Color, True | 85.5 | | 2.0 | CU | | 12-SEP-22 | R5858663 |
| Conductivity | 394 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862360 |
| Hardness (as CaCO3) | 211 | | 0.51 | mg/L | | 23-SEP-22 | |
| pH | 8.47 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862360 |
| Total Suspended Solids | 1.0 | <DL | 3.0 | mg/L | | 10-SEP-22 | R5857721 |
| Total Dissolved Solids | 248 | | 20 | mg/L | | 10-SEP-22 | R5857722 |
| Turbidity | 6.69 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 193 | | 1.0 | mg/L | | 16-SEP-22 | R5862360 |
| Unionized ammonia | 0.00129 | | 0.00094 | mg/L | | 22-SEP-22 | |
| Ammonia, Total (as N) | 0.028 | <T | 0.020 | mg/L | | 21-SEP-22 | R5865419 |
| Chloride (Cl) | 4.78 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.083 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 1.05 | | 0.18 | mg/L | 19-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0021 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0284 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | 6.35 | | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | 0.0002 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-15 SW26_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 14:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 27.8 | | 0.50 | mg/L | 06-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 27.8 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866432 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.181 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000095 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00172 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0137 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 52.1 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | 0.0000280 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00068 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000200 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00152 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 0.374 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00012 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0064 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 19.3 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.0438 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | 0.000940 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00184 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.020 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 1.63 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00166 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000265 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 4.66 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 2.91 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.127 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 2.4 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | 0.00041 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.00512 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-15 SW26_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 14:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Uranium (U)-Total | 0.00105 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00110 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0060 | <T | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000364 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0254 | <T | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000095 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00157 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0141 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0170 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 53.5 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | 0.0000040 | <DL | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000130 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00130 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.116 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0064 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 18.9 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.0359 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |
| Molybdenum (Mo)-Dissolved | 0.00103 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00164 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.025 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 1.61 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00142 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000200 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 4.89 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000030 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 2.82 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.131 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 2.2 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | 0.000004 | <DL | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | 0.000015 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00126 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|---------|----------|-----------|-----------|----------|
| L2732174-15 SW26_SW_20220906 Sampled By: Client on 06-SEP-22 @ 14:45 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.00101 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00060 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0050 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000376 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 68 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2732174-16 SW25_SW_20220906 Sampled By: Client on 06-SEP-22 @ 15:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 7.46 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 7.66 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 18.43 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |
| Color, True | 105 | | 2.0 | CU | | 12-SEP-22 | R5858663 |
| Conductivity | 314 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862360 |
| Hardness (as CaCO3) | 165 | | 0.51 | mg/L | | 23-SEP-22 | |
| pH | 8.28 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862360 |
| Total Suspended Solids | 4.0 | | 3.0 | mg/L | | 10-SEP-22 | R5857721 |
| Total Dissolved Solids | 212 | | 20 | mg/L | | 10-SEP-22 | R5857722 |
| Turbidity | 8.59 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 142 | | 1.0 | mg/L | | 16-SEP-22 | R5862360 |
| Unionized ammonia | 0.00052 | | 0.00039 | mg/L | | 22-SEP-22 | |
| Ammonia, Total (as N) | 0.026 | <T | 0.020 | mg/L | | 21-SEP-22 | R5865419 |
| Chloride (Cl) | 8.05 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.089 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 0.95 | | 0.18 | mg/L | 19-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0042 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0314 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | 5.25 | | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | 0.0002 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 26.3 | | 0.50 | mg/L | 06-SEP-22 | 19-SEP-22 | R5863778 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-16 SW25_SW_20220906 Sampled By: Client on 06-SEP-22 @ 15:10 Matrix: SW | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Total Organic Carbon | 26.2 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866434 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.247 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000075 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00140 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0195 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | 0.0000010 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | 0.000002 | <DL | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 42.7 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | 0.0000365 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00060 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000220 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00134 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 0.516 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00015 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0044 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 13.9 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.0994 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | 0.000655 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00146 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.020 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 1.58 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00223 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000245 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 4.43 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 4.17 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.0977 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 2.0 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | 0.00009 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.00664 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.000662 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-16 SW25_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 15:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Vanadium (V)-Total | 0.00125 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0160 | | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000326 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0262 | <T | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000085 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00123 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0193 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0110 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 43.5 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | 0.0000030 | <DL | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00015 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000102 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00108 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.181 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0042 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 13.7 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.0579 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |
| Molybdenum (Mo)-Dissolved | 0.000672 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00126 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 1.57 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00170 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000200 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 4.35 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 3.58 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.101 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 1.8 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | 0.000075 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00086 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L2732174-16 SW25_SW_20220906 Sampled By: Client on 06-SEP-22 @ 15:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Uranium (U)-Dissolved | 0.000629 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00064 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0174 | | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000300 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 68 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2732174-17 SW02_SW_20220906 Sampled By: Client on 06-SEP-22 @ 15:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 3.28 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 7.13 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 18.37 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |
| Color, True | 221 | | 2.0 | CU | | 12-SEP-22 | R5858663 |
| Conductivity | 149 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862360 |
| Hardness (as CaCO3) | 90.1 | | 0.51 | mg/L | | 23-SEP-22 | |
| pH | 7.83 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862360 |
| Total Suspended Solids | 1.0 | <DL | 3.0 | mg/L | | 10-SEP-22 | R5857721 |
| Total Dissolved Solids | 148 | | 13 | mg/L | | 10-SEP-22 | R5857722 |
| Turbidity | 1.34 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 73.9 | | 1.0 | mg/L | | 16-SEP-22 | R5862360 |
| Unionized ammonia | 0.00029 | | 0.00011 | mg/L | | 22-SEP-22 | |
| Ammonia, Total (as N) | 0.050 | <T | 0.020 | mg/L | | 21-SEP-22 | R5865419 |
| Chloride (Cl) | 0.14 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.031 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 1.25 | | 0.18 | mg/L | 19-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0137 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 38.9 | | 0.50 | mg/L | 06-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 38.8 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866434 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-17 SW02_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 15:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0450 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000020 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00135 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0150 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 21.4 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | 0.0000040 | <DL | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00040 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000445 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 0.865 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00008 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0016 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 8.65 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.272 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860061 |
| Molybdenum (Mo)-Total | 0.000025 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00032 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.005 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 0.54 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00161 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000165 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 6.88 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 0.785 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.0399 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00001 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.00095 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.0000200 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00030 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-17 SW02_SW_20220906 | | | | | | | |
| Sampled By: Client on 06-SEP-22 @ 15:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000098 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0392 | | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000030 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00129 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0158 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0025 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 21.9 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000336 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.678 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00007 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0018 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 8.61 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.198 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860076 |
| Molybdenum (Mo)-Dissolved | 0.000066 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00040 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 0.54 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00152 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000165 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 7.74 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 0.740 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.0410 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | 0.000004 | <DL | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00050 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.0000225 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|---------|----------|-----------|-----------|----------|
| L2732174-17 SW02_SW_20220906 Sampled By: Client on 06-SEP-22 @ 15:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Vanadium (V)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0024 | <DL | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000122 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 100 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| Report Remarks : PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2732174-18 SW22A_SW_20220906 Sampled By: Client on 07-SEP-22 @ 15:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 3.04 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 7.39 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 17.54 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |
| Color, True | 85.8 | | 2.0 | CU | | 12-SEP-22 | R5858663 |
| Conductivity | 382 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862360 |
| Hardness (as CaCO3) | 197 | | 0.51 | mg/L | | 23-SEP-22 | |
| pH | 8.43 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862360 |
| Total Suspended Solids | 6.0 | | 3.0 | mg/L | | 11-SEP-22 | R5858036 |
| Total Dissolved Solids | 256 | | 20 | mg/L | | 11-SEP-22 | R5858059 |
| Turbidity | 5.82 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 178 | | 1.0 | mg/L | | 16-SEP-22 | R5862360 |
| Unionized ammonia | 0.00032 | | 0.00020 | mg/L | | 22-SEP-22 | |
| Ammonia, Total (as N) | 0.032 | <T | 0.020 | mg/L | | 21-SEP-22 | R5865419 |
| Chloride (Cl) | 9.19 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.088 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 1.20 | | 0.18 | mg/L | 19-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0279 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0741 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | 5.20 | | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0009 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 30.4 | | 0.50 | mg/L | 07-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 30.0 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866434 |
| Inorganic Parameters | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-18 SW22A_SW_20220906 Sampled By: Client on 07-SEP-22 @ 15:00 Matrix: SW | | | | | | | |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.216 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000075 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00198 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0176 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | 0.0000029 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 48.2 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | 0.0000300 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00060 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000305 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00068 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 0.503 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00010 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0064 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 18.4 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.213 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860063 |
| Molybdenum (Mo)-Total | 0.000535 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00162 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.075 | | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 2.00 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00221 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000290 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 5.91 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 5.24 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.125 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 2.0 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.00583 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.000695 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00105 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-18 SW22A_SW_20220906 | | | | | | | |
| Sampled By: Client on 07-SEP-22 @ 15:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Zirconium (Zr)-Total | 0.000390 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0042 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000085 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00181 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0153 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0155 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000040 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 48.8 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00015 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000198 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00058 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.114 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0058 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 18.3 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.180 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860178 |
| Molybdenum (Mo)-Dissolved | 0.000520 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00148 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.055 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 1.98 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00170 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000210 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 5.86 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 5.26 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.127 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 1.8 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00072 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.000661 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00050 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|----------|----------|-----------|-----------|----------|
| L2732174-18 SW22A_SW_20220906 Sampled By: Client on 07-SEP-22 @ 15:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Zinc (Zn)-Dissolved | 0.0014 | <DL | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000266 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000451 | | 0.000020 | ug/L | 06-OCT-22 | 13-OCT-22 | R5873836 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 74 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| L2732174-19 SW22A_SW_20220906 Sampled By: Client on 07-SEP-22 @ 15:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 3.04 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 7.39 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 17.54 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.01 | | 0.010 | Bq/L | | 04-NOV-22 | R5889197 |
| L2732174-20 SW21A_SW_20220906 Sampled By: Client on 08-SEP-22 @ 08:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 3.06 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 8.25 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 16.96 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |
| Color, True | 99.2 | | 2.0 | CU | | 12-SEP-22 | R5858663 |
| Conductivity | 407 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862361 |
| Hardness (as CaCO3) | 186 | | 0.51 | mg/L | | 23-SEP-22 | |
| pH | 8.52 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862361 |
| Total Suspended Solids | 7.0 | | 3.0 | mg/L | | 11-SEP-22 | R5858036 |
| Total Dissolved Solids | 248 | | 20 | mg/L | | 11-SEP-22 | R5858059 |
| Turbidity | 3.83 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 192 | | 1.0 | mg/L | | 16-SEP-22 | R5862361 |
| Unionized ammonia | 0.0020 | | 0.0013 | mg/L | | 22-SEP-22 | |
| Ammonia, Total (as N) | 0.030 | <T | 0.020 | mg/L | | 21-SEP-22 | R5865419 |
| Chloride (Cl) | 7.99 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.066 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 1.45 | | 0.18 | mg/L | 19-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0294 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0779 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-20 SW21A_SW_20220906 Sampled By: Client on 08-SEP-22 @ 08:30 Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Sulfate (SO4) | 1.05 | <T | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0010 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0014 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 33.9 | | 0.50 | mg/L | 08-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 35.5 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866434 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0982 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000085 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00207 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0164 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 43.2 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | 0.0000145 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00048 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000370 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00044 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 0.379 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00005 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0056 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 17.5 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.305 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860063 |
| Molybdenum (Mo)-Total | 0.000275 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00132 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.065 | | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 2.01 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00265 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000270 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 6.75 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 5.68 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.111 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 0.8 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-20 SW21A_SW_20220906 | | | | | | | |
| Sampled By: Client on 08-SEP-22 @ 08:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00001 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.00313 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.000273 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00060 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0035 | <T | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000194 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0034 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000080 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00196 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0153 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0160 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000010 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 44.5 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00019 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000296 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00014 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.151 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0052 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 18.1 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.223 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860178 |
| Molybdenum (Mo)-Dissolved | 0.000318 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00140 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.060 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 2.06 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00238 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000245 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 7.10 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 5.73 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.115 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 0.4 | <DL | 0.50 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|----------|-----------|-----------|----------|
| L2732174-20 SW21A_SW_20220906 Sampled By: Client on 08-SEP-22 @ 08:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |
| Thorium (Th)-Dissolved | 0.00001 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00022 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.000243 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00030 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0014 | <DL | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000192 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 10-SEP-22 | R5861115 |
| COD | 88 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |
| L2732174-21 SW27_SW_20220906 Sampled By: Client on 08-SEP-22 @ 08:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 2.81 | | 0 | mg/L | | 11-SEP-22 | R5857698 |
| pH, Client Supplied | 7.39 | | 0.10 | pH | | 11-SEP-22 | R5857698 |
| Temperature, Client Supplied | 17.45 | | 0 | Degree C | | 11-SEP-22 | R5857698 |
| Physical Tests | | | | | | | |
| Color, True | 81.3 | | 2.0 | CU | | 12-SEP-22 | R5858663 |
| Conductivity | 353 | | 1.0 | umhos/cm | | 16-SEP-22 | R5862361 |
| Hardness (as CaCO3) | 215 | | 0.51 | mg/L | | 23-SEP-22 | |
| pH | 8.40 | PEHT | 0.10 | pH units | | 16-SEP-22 | R5862361 |
| Total Suspended Solids | 4.0 | | 3.0 | mg/L | | 11-SEP-22 | R5858036 |
| Total Dissolved Solids | 258 | | 20 | mg/L | | 11-SEP-22 | R5858059 |
| Turbidity | 4.46 | | 0.10 | NTU | | 10-SEP-22 | R5857650 |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 166 | | 1.0 | mg/L | | 16-SEP-22 | R5862361 |
| Unionized ammonia | 0.00026 | | 0.00019 | mg/L | | 22-SEP-22 | |
| Ammonia, Total (as N) | 0.026 | <T | 0.020 | mg/L | | 21-SEP-22 | R5865419 |
| Chloride (Cl) | 6.41 | | 0.10 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Fluoride (F) | 0.086 | | 0.020 | mg/L | 10-SEP-22 | 11-SEP-22 | R5858816 |
| Nitrate (as N) | 0.002 | <DL | 0.020 | mg/L | | 11-SEP-22 | R5858816 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-SEP-22 | R5858816 |
| Total Kjeldahl Nitrogen | 1.10 | | 0.18 | mg/L | 19-SEP-22 | 19-SEP-22 | R5864016 |
| Orthophosphate-Dissolved (as P) | 0.0114 | | 0.0010 | mg/L | 12-SEP-22 | 15-SEP-22 | R5861059 |
| Phosphorus (P)-Total | 0.0384 | <T | 0.0030 | mg/L | | 19-SEP-22 | R5862936 |
| Sulfate (SO4) | 4.85 | <T | 0.30 | mg/L | | 11-SEP-22 | R5858816 |
| Cyanides | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-21 SW27_SW_20220906 | | | | | | | |
| Sampled By: Client on 08-SEP-22 @ 08:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0011 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 14-SEP-22 | R5860356 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 27.3 | | 0.50 | mg/L | 08-SEP-22 | 19-SEP-22 | R5863778 |
| Total Organic Carbon | 28.1 | DLM | 2.5 | mg/L | | 26-SEP-22 | R5866434 |
| Inorganic Parameters | | | | | | | |
| Acidity (as CaCO3) | <2.0 | | 2.0 | mg/L | | 16-SEP-22 | R5861998 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.140 | | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Antimony (Sb)-Total | 0.000085 | <DL | 0.00060 | mg/L | | 22-SEP-22 | R5866108 |
| Arsenic (As)-Total | 0.00152 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Barium (Ba)-Total | 0.0184 | | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Boron (B)-Total | <0.0005 | <W | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 22-SEP-22 | R5866108 |
| Calcium (Ca)-Total | 53.2 | | 0.20 | mg/L | | 22-SEP-22 | R5866108 |
| Cesium (Cs)-Total | 0.0000185 | | 0.000010 | mg/L | | 22-SEP-22 | R5866108 |
| Chromium (Cr)-Total | 0.00048 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Cobalt (Co)-Total | 0.000190 | <DL | 0.00050 | mg/L | | 22-SEP-22 | R5866108 |
| Copper (Cu)-Total | 0.00102 | <T | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Iron (Fe)-Total | 0.354 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Lead (Pb)-Total | 0.00010 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Lithium (Li)-Total | 0.0062 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Magnesium (Mg)-Total | 19.1 | | 0.020 | mg/L | | 22-SEP-22 | R5866108 |
| Manganese (Mn)-Total | 0.0888 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860063 |
| Molybdenum (Mo)-Total | 0.000765 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Nickel (Ni)-Total | 0.00168 | <DL | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 22-SEP-22 | R5866108 |
| Potassium (K)-Total | 1.91 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Rubidium (Rb)-Total | 0.00170 | | 0.00020 | mg/L | | 22-SEP-22 | R5866108 |
| Selenium (Se)-Total | 0.000215 | <T | 0.000050 | mg/L | | 22-SEP-22 | R5866108 |
| Silicon (Si)-Total | 5.06 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Silver (Ag)-Total | 0.000005 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |
| Sodium (Na)-Total | 4.53 | | 0.10 | mg/L | | 22-SEP-22 | R5866108 |
| Strontium (Sr)-Total | 0.128 | | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Sulfur (S)-Total | 1.8 | | 0.50 | mg/L | | 22-SEP-22 | R5866108 |
| Tellurium (Te)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 22-SEP-22 | R5866108 |
| Thorium (Th)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 22-SEP-22 | R5866108 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2732174-21 SW27_SW_20220906 | | | | | | | |
| Sampled By: Client on 08-SEP-22 @ 08:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tin (Sn)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Titanium (Ti)-Total | 0.00417 | | 0.0020 | mg/L | | 22-SEP-22 | R5866108 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 22-SEP-22 | R5866108 |
| Uranium (U)-Total | 0.000931 | <DL | 0.0050 | mg/L | | 22-SEP-22 | R5866108 |
| Vanadium (V)-Total | 0.00090 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 22-SEP-22 | R5866108 |
| Zirconium (Zr)-Total | 0.000322 | <DL | 0.0010 | mg/L | | 22-SEP-22 | R5866108 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 15-SEP-22 | R5861619 |
| Aluminum (Al)-Dissolved | 0.0088 | <T | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Antimony (Sb)-Dissolved | 0.000090 | <DL | 0.00060 | mg/L | | 19-SEP-22 | R5864197 |
| Arsenic (As)-Dissolved | 0.00138 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Barium (Ba)-Dissolved | 0.0168 | | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Boron (B)-Dissolved | 0.0140 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Cadmium (Cd)-Dissolved | 0.0000040 | <DL | 0.000017 | mg/L | | 19-SEP-22 | R5864197 |
| Calcium (Ca)-Dissolved | 53.9 | | 0.20 | mg/L | | 19-SEP-22 | R5864197 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 19-SEP-22 | R5864197 |
| Chromium (Cr)-Dissolved | 0.00017 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Cobalt (Co)-Dissolved | 0.000158 | <DL | 0.00050 | mg/L | | 19-SEP-22 | R5864197 |
| Copper (Cu)-Dissolved | 0.00110 | <T | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Iron (Fe)-Dissolved | 0.135 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Lithium (Li)-Dissolved | 0.0060 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Magnesium (Mg)-Dissolved | 19.5 | | 0.020 | mg/L | | 19-SEP-22 | R5864197 |
| Manganese (Mn)-Dissolved | 0.0691 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-SEP-22 | R5860178 |
| Molybdenum (Mo)-Dissolved | 0.000770 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Nickel (Ni)-Dissolved | 0.00168 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Phosphorus (P)-Dissolved | 0.030 | <DL | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Potassium (K)-Dissolved | 1.91 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Rubidium (Rb)-Dissolved | 0.00137 | | 0.00020 | mg/L | | 19-SEP-22 | R5864197 |
| Selenium (Se)-Dissolved | 0.000225 | <T | 0.000050 | mg/L | | 19-SEP-22 | R5864197 |
| Silicon (Si)-Dissolved | 5.19 | | 0.050 | mg/L | | 19-SEP-22 | R5864197 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Sodium (Na)-Dissolved | 4.48 | | 0.10 | mg/L | | 19-SEP-22 | R5864197 |
| Strontium (Sr)-Dissolved | 0.133 | | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Sulfur (S)-Dissolved | 1.6 | | 0.50 | mg/L | | 19-SEP-22 | R5864197 |
| Tellurium (Te)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 19-SEP-22 | R5864197 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|---------|-------|-----------|-----------|----------|
| L2732174-21 SW27_SW_20220906 Sampled By: Client on 08-SEP-22 @ 08:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 19-SEP-22 | R5864197 |
| Tin (Sn)-Dissolved | 0.000050 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Titanium (Ti)-Dissolved | 0.00122 | <DL | 0.0020 | mg/L | | 19-SEP-22 | R5864197 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 19-SEP-22 | R5864197 |
| Uranium (U)-Dissolved | 0.000909 | <DL | 0.0050 | mg/L | | 19-SEP-22 | R5864197 |
| Vanadium (V)-Dissolved | 0.00052 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Zinc (Zn)-Dissolved | 0.0028 | <DL | 0.0030 | mg/L | | 19-SEP-22 | R5864197 |
| Zirconium (Zr)-Dissolved | 0.000360 | <DL | 0.0010 | mg/L | | 19-SEP-22 | R5864197 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 11-SEP-22 | R5862102 |
| COD | 71 | | 10 | mg/L | | 15-SEP-22 | R5861164 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 19-SEP-22 | 19-SEP-22 | R5863398 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------|---------------------------------|-----------|---|
| Matrix Spike | Calcium (Ca)-Dissolved | MS-B | L2732174-1, -10, -12, -14, -15, -16, -17, -18, -2, -20, -21, -3, -4, -5, -6, -7, -8 |
| Matrix Spike | Magnesium (Mg)-Dissolved | MS-B | L2732174-1, -10, -12, -14, -15, -16, -17, -18, -2, -20, -21, -3, -4, -5, -6, -7, -8 |
| Matrix Spike | Sodium (Na)-Dissolved | MS-B | L2732174-1, -10, -12, -14, -15, -16, -17, -18, -2, -20, -21, -3, -4, -5, -6, -7, -8 |
| Matrix Spike | Strontium (Sr)-Dissolved | MS-B | L2732174-1, -10, -12, -14, -15, -16, -17, -18, -2, -20, -21, -3, -4, -5, -6, -7, -8 |
| Matrix Spike | Ammonia, Total (as N) | MS-B | L2732174-12, -14, -15, -16, -17 |
| Matrix Spike | Orthophosphate-Dissolved (as P) | MS-B | L2732174-1, -10, -12, -14, -15, -16, -17, -18, -2, -20, -21, -3, -4, -5, -6, -7, -8 |
| Matrix Spike | Total Organic Carbon | MS-B | L2732174-16, -17, -18, -20, -21 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|--|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| DLIS | Detection Limit Adjusted: Insufficient Sample |
| DLM | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| PEHT | Parameter Exceeded Recommended Holding Time Prior to Analysis |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|---|--|
| ACIDITY-WT | Water | Acidity (as CaCO ₃) | APHA 2310 B - Potentiometric Titration |
| ALK-WT | Water | Alkalinity, Total (as CaCO ₃) | APHA 2320B |

This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint.

| | | | |
|--------|-------|---------------------------------|--|
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
|--------|-------|---------------------------------|--|

All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation.

| | | | |
|--------------|-------|-------------------------------------|-----------------|
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
|--------------|-------|-------------------------------------|-----------------|

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

| | | | |
|---------------------|----------|--|--------------------------|
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
|---------------------|----------|--|--------------------------|

This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.

| | | | |
|------------------|----------|----------------------|-----------------------------|
| CN-T-MISA-CFA-WT | Effluent | Total Cyanide by CFA | ISO 14403-2:2012 (modified) |
|------------------|----------|----------------------|-----------------------------|

This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.

Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

| | | | |
|--------------------|----------|--------------------------------------|---------------------------------|
| CN-WAD-MISA-CFA-WT | Effluent | Weak Acid Dissociable Cyanide by CFA | APHA 4500-CN CYANIDE (modified) |
|--------------------|----------|--------------------------------------|---------------------------------|

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

| | | | |
|----------|-------|------------------------|-------------|
| COD-T-WT | Water | Chemical Oxygen Demand | APHA 5220 D |
|----------|-------|------------------------|-------------|

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

Reference Information

| | | | |
|---|----------|---|---|
| COLOUR-TB | Water | Colour, True | APHA 2120 C |
| True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard. | | | |
| DO-CLIENT-TB | Water | Dissolved Oxygen, Client Supplied | Result supplied by Client |
| DOC-WT | Effluent | Dissolved Organic Carbon for MISA | APHA 5310 B-Instrumental |
| EC-SCREEN-WT | Water | Conductivity Screen (Internal Use Only) | APHA 2510 |
| Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc. | | | |
| EC-WT | Water | Conductivity | APHA 2510 B |
| Water samples can be measured directly by immersing the conductivity cell into the sample. | | | |
| ETL-NH3-UNION-CLI-WT | Water | Un-ionized ammonia | CALCULATION |
| F-IC-N-TB | Water | Fluoride in Water by IC | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| HARDNESS-CALC-TB | Effluent | Hardness (as CaCO ₃) | CALCULATION |
| HG-DIS-WT | Effluent | Mercury (Hg)-Dissolved for MISA | SW846 7470A |
| HG-TOT-WT | Effluent | Mercury (Hg)-Total for MISA | SW846 7470A |
| MEHG-T-GCAF-VA | Water | Total Methylmercury in Water by GCAFS | EPA 1630 (mod) |
| This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg". | | | |
| MET-D-MISA-TB | Effluent | Dissolved Metals in Water (MISA) | APHA 3030B/6020B (mod) |
| Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS. | | | |
| Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method. | | | |
| MET-T-MISA-TB | Effluent | Total Metals in Water (MISA) | EPA 200.2/6020B (mod) |
| Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS. | | | |
| Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method. | | | |
| NH3-F-WT | Effluent | Ammonia, Total as N | J. ENVIRON. MONIT., 2005, 7, 37-42, RSC |
| This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Weston et al. | | | |
| NO2-MISA-IC-TB | Effluent | Nitrite in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| NO3-MISA-IC-TB | Effluent | Nitrate in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| OGG-TOT-WT | Effluent | Oil and Grease, Total for MISA | APHA 5520 B-Hexane Gravimetric |
| P-T-MISA-COL-WT | Effluent | Total Phosphorus by Discrete Analyzer | APHA 4500-P B, F, G (modified) |
| Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection. | | | |
| PH-CLIENT-TB | Water | pH | Result supplied by Client |

Reference Information

PH-WT Water pH APHA 4500 H-Electrode

Water samples are analyzed directly by a calibrated pH meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011). Holdtime for samples under this regulation is 28 days

PO4-DO-COL-TB Water Dissolved Orthophosphate APHA 4500-P B, F, G (modified)

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

RA226-MMER-BE Water Radium 226 Radium Isotopes by Alpha Spectrometry

Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.

SO4-MISA-IC-TB Effluent Sulfate in Water by IC EPA 300.1 (mod)

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

TDS-MISA-TB Effluent Total Dissolved Solids APHA 2540 C (modified)

Aqueous matrices are analyzed using gravimetry and evaporation

TEMP-CLIENT-TB Water Temperature Result supplied by Client

TKN-WT Effluent Total Kjeldahl Nitrogen for MISA APHA 4500-N

TOC-WT Water Total Organic Carbon APHA 5310B

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

TSS-MISA-TB Effluent Total Suspended Solids APHA 2540 D (modified)

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB Water Turbidity APHA 2130 B-Nephelometer

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |
| BE | BUREAU VERITAS - MISSISSAUGA, ONTARIO, CANADA |
| VA | ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| ACIDITY-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5861998 | | | | | | | |
| WG3763239-3 | DUP | L2732174-3 | | | | | | |
| Acidity (as CaCO3) | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 20 | 16-SEP-22 |
| WG3763239-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 110.3 | | % | | 85-115 | 16-SEP-22 |
| WG3763239-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | <2.0 | | mg/L | | 3 | 16-SEP-22 |
| ALK-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5862360 | | | | | | | |
| WG3763344-4 | DUP | WG3763344-3 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 189 | 189 | | mg/L | 0.0 | 20 | 16-SEP-22 |
| WG3763344-2 | LCS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 101.0 | | % | | 85-115 | 16-SEP-22 |
| WG3763344-1 | MB | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | <1.0 | | mg/L | | 1 | 16-SEP-22 |
| Batch | R5862361 | | | | | | | |
| WG3763345-4 | DUP | WG3763345-3 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 62.4 | 62.4 | | mg/L | 0.0 | 20 | 16-SEP-22 |
| WG3763345-2 | LCS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 100.7 | | % | | 85-115 | 16-SEP-22 |
| WG3763345-1 | MB | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | <1.0 | | mg/L | | 1 | 16-SEP-22 |
| Batch | R5862436 | | | | | | | |
| WG3763343-4 | DUP | WG3763343-3 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 67.9 | 66.5 | | mg/L | 2.1 | 20 | 16-SEP-22 |
| WG3763343-2 | LCS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 101.6 | | % | | 85-115 | 16-SEP-22 |
| WG3763343-1 | MB | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | <1.0 | | mg/L | | 1 | 16-SEP-22 |
| BOD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5861115 | | | | | | | |
| WG3762134-4 | DUP | L2732174-18 | | | | | | |
| Biochemical Oxygen Demand | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 30 | 10-SEP-22 |
| WG3762134-8 | DUP | L2732191-1 | | | | | | |
| Biochemical Oxygen Demand | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 30 | 10-SEP-22 |
| WG3762134-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 96.1 | | % | | 85-115 | 10-SEP-22 |
| WG3762134-6 | LCS | | | | | | | |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| BOD-TB | | | | | | | | |
| Water | | | | | | | | |
| Batch | R5861115 | | | | | | | |
| WG3762134-6 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 100.6 | | % | | 85-115 | 10-SEP-22 |
| WG3762134-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 10-SEP-22 |
| WG3762134-5 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 10-SEP-22 |
| Batch | R5862102 | | | | | | | |
| WG3762182-3 | DUP | L2732174-21 | | | | | | |
| Biochemical Oxygen Demand | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 30 | 11-SEP-22 |
| WG3762182-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 102.8 | | % | | 85-115 | 11-SEP-22 |
| WG3762182-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 11-SEP-22 |
| CL-L-IC-N-TB | | | | | | | | |
| Water | | | | | | | | |
| Batch | R5858816 | | | | | | | |
| WG3762142-3 | DUP | L2732174-1 | | | | | | |
| Chloride (Cl) | | 1.82 | 1.78 | | mg/L | 2.3 | 20 | 11-SEP-22 |
| WG3762142-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 100.2 | | % | | 90-110 | 11-SEP-22 |
| WG3762142-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 11-SEP-22 |
| WG3762142-4 | MS | L2732174-2 | | | | | | |
| Chloride (Cl) | | | 99.1 | | % | | 75-125 | 11-SEP-22 |
| COD-T-WT | | | | | | | | |
| Water | | | | | | | | |
| Batch | R5861164 | | | | | | | |
| WG3762965-3 | DUP | L2732165-1 | | | | | | |
| COD | | 19 | 19 | | mg/L | 0.5 | 20 | 15-SEP-22 |
| WG3762965-7 | DUP | L2732174-20 | | | | | | |
| COD | | 88 | 92 | | mg/L | 4.7 | 20 | 15-SEP-22 |
| WG3762965-2 | LCS | | | | | | | |
| COD | | | 110.3 | | % | | 85-115 | 15-SEP-22 |
| WG3762965-6 | LCS | | | | | | | |
| COD | | | 106.6 | | % | | 85-115 | 15-SEP-22 |
| WG3762965-1 | MB | | | | | | | |
| COD | | | <10 | | mg/L | | 10 | 15-SEP-22 |
| WG3762965-5 | MB | | | | | | | |
| COD | | | <10 | | mg/L | | 10 | 15-SEP-22 |
| WG3762965-4 | MS | L2732165-1 | | | | | | |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------|----------|-------------|--------|-----------|----------|-----|--------|-----------|
| COD-T-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5861164 | | | | | | | |
| WG3762965-4 | MS | L2732165-1 | | | | | | |
| COD | | | 99.1 | | % | | 75-125 | 15-SEP-22 |
| WG3762965-8 | MS | L2732174-20 | | | | | | |
| COD | | | 95.1 | | % | | 75-125 | 15-SEP-22 |
| COLOUR-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5857651 | | | | | | | |
| WG3762141-3 | DUP | L2732174-1 | | | | | | |
| Color, True | | 41.4 | 40.2 | | CU | 3.0 | 20 | 10-SEP-22 |
| WG3762141-2 | LCS | | | | | | | |
| Color, True | | | 100.7 | | % | | 85-115 | 10-SEP-22 |
| WG3762141-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 10-SEP-22 |
| Batch | R5858663 | | | | | | | |
| WG3762295-3 | DUP | L2732174-6 | | | | | | |
| Color, True | | 99.8 | 101 | | CU | 0.9 | 20 | 12-SEP-22 |
| WG3762295-2 | LCS | | | | | | | |
| Color, True | | | 102.4 | | % | | 85-115 | 12-SEP-22 |
| WG3762295-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 12-SEP-22 |
| EC-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5862360 | | | | | | | |
| WG3763344-4 | DUP | WG3763344-3 | | | | | | |
| Conductivity | | 395 | 396 | | umhos/cm | 0.3 | 10 | 16-SEP-22 |
| WG3763344-2 | LCS | | | | | | | |
| Conductivity | | | 105.6 | | % | | 90-110 | 16-SEP-22 |
| WG3763344-1 | MB | | | | | | | |
| Conductivity | | | <1.0 | | umhos/cm | | 1 | 16-SEP-22 |
| Batch | R5862361 | | | | | | | |
| WG3763345-4 | DUP | WG3763345-3 | | | | | | |
| Conductivity | | 194 | 193 | | umhos/cm | 0.3 | 10 | 16-SEP-22 |
| WG3763345-2 | LCS | | | | | | | |
| Conductivity | | | 106.4 | | % | | 90-110 | 16-SEP-22 |
| WG3763345-1 | MB | | | | | | | |
| Conductivity | | | <1.0 | | umhos/cm | | 1 | 16-SEP-22 |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------------|-----------------|--------------------|-----------|-----------|----------|------|---------|-----------|
| EC-WT | | Water | | | | | | |
| Batch | R5862436 | | | | | | | |
| WG3763343-4 | DUP | WG3763343-3 | | | | | | |
| Conductivity | | 1820 | 1840 | | umhos/cm | 1.0 | 10 | 16-SEP-22 |
| WG3763343-2 | LCS | | | | | | | |
| Conductivity | | | 105.2 | | % | | 90-110 | 16-SEP-22 |
| WG3763343-1 | MB | | | | | | | |
| Conductivity | | | <1.0 | | umhos/cm | | 1 | 16-SEP-22 |
| F-IC-N-TB | | Water | | | | | | |
| Batch | R5858816 | | | | | | | |
| WG3762142-3 | DUP | L2732174-1 | | | | | | |
| Fluoride (F) | | 0.028 | <0.020 | RPD-NA | mg/L | N/A | 20 | 11-SEP-22 |
| WG3762142-2 | LCS | | | | | | | |
| Fluoride (F) | | | 99.8 | | % | | 90-110 | 11-SEP-22 |
| WG3762142-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 11-SEP-22 |
| WG3762142-4 | MS | L2732174-2 | | | | | | |
| Fluoride (F) | | | 101.1 | | % | | 75-125 | 11-SEP-22 |
| MEHG-T-GCAF-VA | | Water | | | | | | |
| Batch | R5873836 | | | | | | | |
| WG3768012-2 | DUP | L2733061-7 | | | | | | |
| Methylmercury (as MeHg)-Total | | 0.000061 | 0.000056 | | ug/L | 8.7 | 30 | 13-OCT-22 |
| WG3768012-3 | LCS | | | | | | | |
| Methylmercury (as MeHg)-Total | | | 85.2 | | % | | 70-130 | 13-OCT-22 |
| WG3768012-1 | MB | | | | | | | |
| Methylmercury (as MeHg)-Total | | | <0.000020 | | ug/L | | 0.00002 | 13-OCT-22 |
| WG3768012-4 | MS | L2733842-2 | | | | | | |
| Methylmercury (as MeHg)-Total | | | 87.2 | | % | | 60-140 | 13-OCT-22 |
| PH-WT | | Water | | | | | | |
| Batch | R5862360 | | | | | | | |
| WG3763344-4 | DUP | WG3763344-3 | | | | | | |
| pH | | 8.29 | 8.26 | J | pH units | 0.03 | 0.2 | 16-SEP-22 |
| WG3763344-2 | LCS | | | | | | | |
| pH | | | 7.00 | | pH units | | 6.9-7.1 | 16-SEP-22 |
| Batch | R5862361 | | | | | | | |
| WG3763345-4 | DUP | WG3763345-3 | | | | | | |
| pH | | 7.95 | 7.88 | J | pH units | 0.07 | 0.2 | 16-SEP-22 |
| WG3763345-2 | LCS | | | | | | | |
| pH | | | 7.00 | | pH units | | 6.9-7.1 | 16-SEP-22 |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|-----------------|--------------------|---------|-----------|----------|------|---------|-----------|
| PH-WT | | Water | | | | | | |
| Batch | R5862436 | | | | | | | |
| WG3763343-4 | DUP | WG3763343-3 | | | | | | |
| pH | | 8.40 | 8.33 | J | pH units | 0.07 | 0.2 | 16-SEP-22 |
| WG3763343-2 | LCS | | | | | | | |
| pH | | | 7.00 | | pH units | | 6.9-7.1 | 16-SEP-22 |
| PO4-DO-COL-TB | | Water | | | | | | |
| Batch | R5861059 | | | | | | | |
| WG3762296-3 | DUP | L2732174-6 | | | | | | |
| Orthophosphate-Dissolved (as P) | | 0.0028 | 0.0025 | | mg/L | 9.4 | 20 | 15-SEP-22 |
| WG3762296-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 98.9 | | % | | 80-120 | 15-SEP-22 |
| WG3762296-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0010 | | mg/L | | 0.001 | 15-SEP-22 |
| WG3762296-4 | MS | L2732174-7 | | | | | | |
| Orthophosphate-Dissolved (as P) | | | N/A | MS-B | % | | - | 15-SEP-22 |
| TOC-WT | | Water | | | | | | |
| Batch | R5866432 | | | | | | | |
| WG3763103-3 | DUP | L2732165-1 | | | | | | |
| Total Organic Carbon | | 4.44 | 4.16 | | mg/L | 6.4 | 20 | 26-SEP-22 |
| WG3763103-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 104.8 | | % | | 80-120 | 26-SEP-22 |
| WG3763103-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 26-SEP-22 |
| WG3763103-4 | MS | L2732165-1 | | | | | | |
| Total Organic Carbon | | | 103.4 | | % | | 70-130 | 26-SEP-22 |
| Batch | R5866434 | | | | | | | |
| WG3763209-3 | DUP | L2732191-1 | | | | | | |
| Total Organic Carbon | | 10.1 | 10.2 | | mg/L | 0.8 | 20 | 26-SEP-22 |
| WG3763209-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 106.7 | | % | | 80-120 | 26-SEP-22 |
| WG3763209-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 26-SEP-22 |
| WG3763209-4 | MS | L2732191-1 | | | | | | |
| Total Organic Carbon | | | N/A | MS-B | % | | - | 26-SEP-22 |
| TURBIDITY-TB | | Water | | | | | | |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| TURBIDITY-TB | | Water | | | | | | |
| Batch | R5857650 | | | | | | | |
| WG3762139-3 | DUP | L2732174-1 | | | | | | |
| Turbidity | | 5.67 | 5.64 | | NTU | 0.5 | 15 | 10-SEP-22 |
| WG3762139-2 | LCS | | | | | | | |
| Turbidity | | | 103.5 | | % | | 85-115 | 10-SEP-22 |
| WG3762139-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 10-SEP-22 |
| CN-FREE-MISA-CFA-WT | | Effluent | | | | | | |
| Batch | R5860356 | | | | | | | |
| WG3762777-3 | DUP | L2732174-1 | | | | | | |
| Cyanide, Free | | <0.0001 | <0.0001 | RPD-NA | mg/L | N/A | 20 | 14-SEP-22 |
| WG3762777-7 | DUP | L2732174-18 | | | | | | |
| Cyanide, Free | | <0.0001 | <0.0001 | RPD-NA | mg/L | N/A | 20 | 14-SEP-22 |
| WG3762777-2 | LCS | | | | | | | |
| Cyanide, Free | | | 101.3 | | % | | 80-120 | 14-SEP-22 |
| WG3762777-6 | LCS | | | | | | | |
| Cyanide, Free | | | 100.3 | | % | | 80-120 | 14-SEP-22 |
| WG3762777-1 | MB | | | | | | | |
| Cyanide, Free | | | 0.0008 | | mg/L | | 0.002 | 14-SEP-22 |
| WG3762777-5 | MB | | | | | | | |
| Cyanide, Free | | | 0.0004 | | mg/L | | 0.002 | 14-SEP-22 |
| WG3762777-4 | MS | L2732174-1 | | | | | | |
| Cyanide, Free | | | 107.6 | | % | | 75-125 | 14-SEP-22 |
| WG3762777-8 | MS | L2732174-18 | | | | | | |
| Cyanide, Free | | | 105.4 | | % | | 75-125 | 14-SEP-22 |
| CN-T-MISA-CFA-WT | | Effluent | | | | | | |
| Batch | R5860356 | | | | | | | |
| WG3762777-3 | DUP | L2732174-1 | | | | | | |
| Cyanide, Total | | 0.0004 | 0.0006 | RPD-NA | mg/L | N/A | 20 | 14-SEP-22 |
| WG3762777-7 | DUP | L2732174-18 | | | | | | |
| Cyanide, Total | | 0.0010 | 0.0012 | RPD-NA | mg/L | N/A | 20 | 14-SEP-22 |
| WG3762777-2 | LCS | | | | | | | |
| Cyanide, Total | | | 103.7 | | % | | 80-120 | 14-SEP-22 |
| WG3762777-6 | LCS | | | | | | | |
| Cyanide, Total | | | 95.4 | | % | | 80-120 | 14-SEP-22 |
| WG3762777-1 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 14-SEP-22 |
| WG3762777-5 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 14-SEP-22 |



Quality Control Report

Workorder: L2732174

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| CN-T-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5860356 | | | | | | | |
| WG3762777-4 | MS | L2732174-1 | | | | | | |
| Cyanide, Total | | | 98.6 | | % | | 75-125 | 14-SEP-22 |
| WG3762777-8 | MS | L2732174-18 | | | | | | |
| Cyanide, Total | | | 101.2 | | % | | 75-125 | 14-SEP-22 |
| CN-WAD-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5860356 | | | | | | | |
| WG3762777-3 | DUP | L2732174-1 | | | | | | |
| Cyanide, Weak Acid Diss | | 0.0003 | 0.0003 | RPD-NA | mg/L | N/A | 20 | 14-SEP-22 |
| WG3762777-7 | DUP | L2732174-18 | | | | | | |
| Cyanide, Weak Acid Diss | | 0.0009 | 0.0008 | RPD-NA | mg/L | N/A | 20 | 14-SEP-22 |
| WG3762777-2 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 104.6 | | % | | 80-120 | 14-SEP-22 |
| WG3762777-6 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 101.7 | | % | | 80-120 | 14-SEP-22 |
| WG3762777-1 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 14-SEP-22 |
| WG3762777-5 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 14-SEP-22 |
| WG3762777-4 | MS | L2732174-1 | | | | | | |
| Cyanide, Weak Acid Diss | | | 105.5 | | % | | 75-125 | 14-SEP-22 |
| WG3762777-8 | MS | L2732174-18 | | | | | | |
| Cyanide, Weak Acid Diss | | | 105.6 | | % | | 75-125 | 14-SEP-22 |
| DOC-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5863778 | | | | | | | |
| WG3762875-3 | DUP | WG3762875-5 | | | | | | |
| Dissolved Organic Carbon | | 12.0 | 12.6 | | mg/L | 5.0 | 25 | 19-SEP-22 |
| WG3762875-2 | LCS | | | | | | | |
| Dissolved Organic Carbon | | | 102.5 | | % | | 70-130 | 19-SEP-22 |
| WG3762875-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 19-SEP-22 |
| HG-DIS-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5860076 | | | | | | | |
| WG3762779-3 | DUP | L2732159-1 | | | | | | |
| Mercury (Hg)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 14-SEP-22 |
| WG3762779-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 101.0 | | % | | 80-120 | 14-SEP-22 |
| WG3762779-1 | MB | | | | | | | |



Quality Control Report

Workorder: L2732174

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON POW 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-------------------------|--------------------|-----------|-----------|-------|-----|----------|-----------|
| HG-DIS-WT | | Effluent | | | | | | |
| Batch R5860076 | | | | | | | | |
| WG3762779-1 MB | Mercury (Hg)-Dissolved | | <0.000005 | | mg/L | | 0.000005 | 14-SEP-22 |
| WG3762779-4 MS | Mercury (Hg)-Dissolved | L2732165-1 | 85.3 | | % | | 70-130 | 14-SEP-22 |
| Batch R5860178 | | | | | | | | |
| WG3762780-3 DUP | Mercury (Hg)-Dissolved | L2732174-18 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 14-SEP-22 |
| WG3762780-2 LCS | Mercury (Hg)-Dissolved | | 105.0 | | % | | 80-120 | 14-SEP-22 |
| WG3762780-1 MB | Mercury (Hg)-Dissolved | | <0.000005 | | mg/L | | 0.000005 | 14-SEP-22 |
| WG3762780-4 MS | Mercury (Hg)-Dissolved | L2732174-20 | 81.9 | | % | | 70-130 | 14-SEP-22 |
| HG-TOT-WT | | Effluent | | | | | | |
| Batch R5860061 | | | | | | | | |
| WG3762781-3 DUP | Mercury (Hg)-Total | L2732159-1 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 14-SEP-22 |
| WG3762781-2 LCS | Mercury (Hg)-Total | | 96.4 | | % | | 80-120 | 14-SEP-22 |
| WG3762781-1 MB | Mercury (Hg)-Total | | <0.000005 | | mg/L | | 0.000005 | 14-SEP-22 |
| WG3762781-4 MS | Mercury (Hg)-Total | L2732165-1 | 74.5 | | % | | 70-130 | 14-SEP-22 |
| Batch R5860063 | | | | | | | | |
| WG3762783-3 DUP | Mercury (Hg)-Total | L2732174-18 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 14-SEP-22 |
| WG3762783-2 LCS | Mercury (Hg)-Total | | 95.0 | | % | | 80-120 | 14-SEP-22 |
| WG3762783-1 MB | Mercury (Hg)-Total | | <0.000005 | | mg/L | | 0.000005 | 14-SEP-22 |
| WG3762783-4 MS | Mercury (Hg)-Total | L2732174-20 | 84.3 | | % | | 70-130 | 14-SEP-22 |
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch R5864197 | | | | | | | | |
| WG3763240-15 DUP | Aluminum (Al)-Dissolved | L2732191-3 | 0.0190 | | mg/L | 2.9 | 20 | 19-SEP-22 |
| | Antimony (Sb)-Dissolved | | 0.000300 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|-----------|-----------|-------|----------|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5864197 | | | | | | | |
| WG3763240-15 | DUP | L2732191-3 | | | | | | |
| Arsenic (As)-Dissolved | | 0.00143 | 0.00143 | | mg/L | 0.1 | 20 | 19-SEP-22 |
| Barium (Ba)-Dissolved | | 0.0241 | 0.0245 | | mg/L | 1.6 | 20 | 19-SEP-22 |
| Beryllium (Be)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Bismuth (Bi)-Dissolved | | 0.000002 | 0.000004 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Boron (B)-Dissolved | | 0.0215 | 0.0210 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Cadmium (Cd)-Dissolved | | 0.0000020 | 0.0000020 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Calcium (Ca)-Dissolved | | 52.0 | 51.9 | | mg/L | 0.2 | 20 | 19-SEP-22 |
| Cesium (Cs)-Dissolved | | 0.0000355 | 0.0000375 | | mg/L | 5.4 | 20 | 19-SEP-22 |
| Chromium (Cr)-Dissolved | | 0.00006 | 0.00005 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Cobalt (Co)-Dissolved | | 0.000126 | 0.000120 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Copper (Cu)-Dissolved | | 0.00074 | 0.00072 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Iron (Fe)-Dissolved | | 0.0085 | 0.0090 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Lead (Pb)-Dissolved | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Lithium (Li)-Dissolved | | 0.0104 | 0.0104 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Magnesium (Mg)-Dissolved | | 19.0 | 20.0 | | mg/L | 5.3 | 20 | 19-SEP-22 |
| Manganese (Mn)-Dissolved | | 0.00394 | 0.00400 | | mg/L | 1.7 | 20 | 19-SEP-22 |
| Molybdenum (Mo)-Dissolved | | 0.00109 | 0.00107 | | mg/L | 2.4 | 20 | 19-SEP-22 |
| Nickel (Ni)-Dissolved | | 0.00084 | 0.00088 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Phosphorus (P)-Dissolved | | 0.010 | 0.010 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Potassium (K)-Dissolved | | 4.18 | 4.20 | | mg/L | 0.7 | 20 | 19-SEP-22 |
| Rubidium (Rb)-Dissolved | | 0.00217 | 0.00220 | | mg/L | 1.5 | 20 | 19-SEP-22 |
| Selenium (Se)-Dissolved | | 0.000255 | 0.000315 | J | mg/L | 0.000059 | 0.0001 | 19-SEP-22 |
| Silicon (Si)-Dissolved | | 3.08 | 3.16 | | mg/L | 2.5 | 20 | 19-SEP-22 |
| Silver (Ag)-Dissolved | | 0.0000010 | 0.0000010 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Sodium (Na)-Dissolved | | 5.67 | 5.66 | | mg/L | 0.1 | 20 | 19-SEP-22 |
| Strontium (Sr)-Dissolved | | 0.164 | 0.165 | | mg/L | 0.8 | 20 | 19-SEP-22 |
| Sulfur (S)-Dissolved | | 14.6 | 14.6 | | mg/L | 0.0 | 20 | 19-SEP-22 |
| Tellurium (Te)-Dissolved | | 0.00003 | 0.00002 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Thallium (Tl)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Thorium (Th)-Dissolved | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Tin (Sn)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Titanium (Ti)-Dissolved | | 0.00016 | 0.00020 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Tungsten (W)-Dissolved | | <0.000002 | <0.000002 | | mg/L | | | 19-SEP-22 |



Quality Control Report

Workorder: L2732174

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5864197 | | | | | | | |
| WG3763240-15 DUP | | L2732191-3 | | | | | | |
| Tungsten (W)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Uranium (U)-Dissolved | | 0.000688 | 0.000711 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Vanadium (V)-Dissolved | | 0.00088 | 0.00088 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Zinc (Zn)-Dissolved | | 0.0004 | 0.0006 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| Zirconium (Zr)-Dissolved | | 0.000126 | 0.000124 | RPD-NA | mg/L | N/A | 20 | 19-SEP-22 |
| WG3763240-10 LCS | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 104.8 | | % | | 80-120 | 19-SEP-22 |
| Antimony (Sb)-Dissolved | | | 104.2 | | % | | 80-120 | 19-SEP-22 |
| Arsenic (As)-Dissolved | | | 107.3 | | % | | 80-120 | 19-SEP-22 |
| Barium (Ba)-Dissolved | | | 108.6 | | % | | 80-120 | 19-SEP-22 |
| Beryllium (Be)-Dissolved | | | 109.6 | | % | | 80-120 | 19-SEP-22 |
| Bismuth (Bi)-Dissolved | | | 101.1 | | % | | 80-120 | 19-SEP-22 |
| Boron (B)-Dissolved | | | 93.1 | | % | | 80-120 | 19-SEP-22 |
| Cadmium (Cd)-Dissolved | | | 106.3 | | % | | 80-120 | 19-SEP-22 |
| Calcium (Ca)-Dissolved | | | 105.1 | | % | | 80-120 | 19-SEP-22 |
| Cesium (Cs)-Dissolved | | | 104.0 | | % | | 80-120 | 19-SEP-22 |
| Chromium (Cr)-Dissolved | | | 102.7 | | % | | 80-120 | 19-SEP-22 |
| Cobalt (Co)-Dissolved | | | 102.7 | | % | | 80-120 | 19-SEP-22 |
| Copper (Cu)-Dissolved | | | 98.2 | | % | | 80-120 | 19-SEP-22 |
| Iron (Fe)-Dissolved | | | 105.4 | | % | | 80-120 | 19-SEP-22 |
| Lead (Pb)-Dissolved | | | 102.5 | | % | | 80-120 | 19-SEP-22 |
| Lithium (Li)-Dissolved | | | 101.9 | | % | | 80-120 | 19-SEP-22 |
| Magnesium (Mg)-Dissolved | | | 102.7 | | % | | 80-120 | 19-SEP-22 |
| Manganese (Mn)-Dissolved | | | 101.9 | | % | | 80-120 | 19-SEP-22 |
| Molybdenum (Mo)-Dissolved | | | 101.5 | | % | | 80-120 | 19-SEP-22 |
| Nickel (Ni)-Dissolved | | | 98.8 | | % | | 80-120 | 19-SEP-22 |
| Phosphorus (P)-Dissolved | | | 110.3 | | % | | 70-130 | 19-SEP-22 |
| Potassium (K)-Dissolved | | | 113.6 | | % | | 80-120 | 19-SEP-22 |
| Rubidium (Rb)-Dissolved | | | 102.8 | | % | | 80-120 | 19-SEP-22 |
| Selenium (Se)-Dissolved | | | 109.1 | | % | | 80-120 | 19-SEP-22 |
| Silicon (Si)-Dissolved | | | 108.0 | | % | | 60-140 | 19-SEP-22 |
| Silver (Ag)-Dissolved | | | 98.3 | | % | | 80-120 | 19-SEP-22 |
| Sodium (Na)-Dissolved | | | 111.0 | | % | | 80-120 | 19-SEP-22 |



Quality Control Report

Workorder: L2732174

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5864197 | | | | | | | |
| WG3763240-10 LCS | | | | | | | | |
| Strontium (Sr)-Dissolved | | | 105.4 | | % | | 80-120 | 19-SEP-22 |
| Sulfur (S)-Dissolved | | | 98.3 | | % | | 80-120 | 19-SEP-22 |
| Tellurium (Te)-Dissolved | | | 107.0 | | % | | 80-120 | 19-SEP-22 |
| Thallium (Tl)-Dissolved | | | 103.7 | | % | | 80-120 | 19-SEP-22 |
| Thorium (Th)-Dissolved | | | 101.5 | | % | | 80-120 | 19-SEP-22 |
| Tin (Sn)-Dissolved | | | 104.3 | | % | | 80-120 | 19-SEP-22 |
| Titanium (Ti)-Dissolved | | | 103.5 | | % | | 80-120 | 19-SEP-22 |
| Tungsten (W)-Dissolved | | | 102.2 | | % | | 80-120 | 19-SEP-22 |
| Uranium (U)-Dissolved | | | 101.4 | | % | | 80-120 | 19-SEP-22 |
| Vanadium (V)-Dissolved | | | 104.5 | | % | | 80-120 | 19-SEP-22 |
| Zinc (Zn)-Dissolved | | | 101.4 | | % | | 80-120 | 19-SEP-22 |
| Zirconium (Zr)-Dissolved | | | 105.6 | | % | | 80-120 | 19-SEP-22 |
| WG3763240-14 LCS | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 107.9 | | % | | 80-120 | 19-SEP-22 |
| Antimony (Sb)-Dissolved | | | 103.9 | | % | | 80-120 | 19-SEP-22 |
| Arsenic (As)-Dissolved | | | 109.1 | | % | | 80-120 | 19-SEP-22 |
| Barium (Ba)-Dissolved | | | 106.8 | | % | | 80-120 | 19-SEP-22 |
| Beryllium (Be)-Dissolved | | | 112.0 | | % | | 80-120 | 19-SEP-22 |
| Bismuth (Bi)-Dissolved | | | 100.9 | | % | | 80-120 | 19-SEP-22 |
| Boron (B)-Dissolved | | | 92.9 | | % | | 80-120 | 19-SEP-22 |
| Cadmium (Cd)-Dissolved | | | 106.1 | | % | | 80-120 | 19-SEP-22 |
| Calcium (Ca)-Dissolved | | | 102.6 | | % | | 80-120 | 19-SEP-22 |
| Cesium (Cs)-Dissolved | | | 102.3 | | % | | 80-120 | 19-SEP-22 |
| Chromium (Cr)-Dissolved | | | 103.1 | | % | | 80-120 | 19-SEP-22 |
| Cobalt (Co)-Dissolved | | | 102.6 | | % | | 80-120 | 19-SEP-22 |
| Copper (Cu)-Dissolved | | | 99.7 | | % | | 80-120 | 19-SEP-22 |
| Iron (Fe)-Dissolved | | | 105.5 | | % | | 80-120 | 19-SEP-22 |
| Lead (Pb)-Dissolved | | | 102.3 | | % | | 80-120 | 19-SEP-22 |
| Lithium (Li)-Dissolved | | | 100.9 | | % | | 80-120 | 19-SEP-22 |
| Magnesium (Mg)-Dissolved | | | 106.1 | | % | | 80-120 | 19-SEP-22 |
| Manganese (Mn)-Dissolved | | | 103.5 | | % | | 80-120 | 19-SEP-22 |
| Molybdenum (Mo)-Dissolved | | | 100.8 | | % | | 80-120 | 19-SEP-22 |
| Nickel (Ni)-Dissolved | | | 103.2 | | % | | 80-120 | 19-SEP-22 |
| Phosphorus (P)-Dissolved | | | 113.2 | | % | | 70-130 | 19-SEP-22 |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5864197 | | | | | | | |
| WG3763240-14 LCS | | | | | | | | |
| Potassium (K)-Dissolved | | | 114.6 | | % | | 80-120 | 19-SEP-22 |
| Rubidium (Rb)-Dissolved | | | 105.4 | | % | | 80-120 | 19-SEP-22 |
| Selenium (Se)-Dissolved | | | 109.6 | | % | | 80-120 | 19-SEP-22 |
| Silicon (Si)-Dissolved | | | 105.4 | | % | | 60-140 | 19-SEP-22 |
| Silver (Ag)-Dissolved | | | 96.3 | | % | | 80-120 | 19-SEP-22 |
| Sodium (Na)-Dissolved | | | 108.3 | | % | | 80-120 | 19-SEP-22 |
| Strontium (Sr)-Dissolved | | | 105.7 | | % | | 80-120 | 19-SEP-22 |
| Sulfur (S)-Dissolved | | | 95.7 | | % | | 80-120 | 19-SEP-22 |
| Tellurium (Te)-Dissolved | | | 102.9 | | % | | 80-120 | 19-SEP-22 |
| Thallium (Tl)-Dissolved | | | 104.4 | | % | | 80-120 | 19-SEP-22 |
| Thorium (Th)-Dissolved | | | 103.7 | | % | | 80-120 | 19-SEP-22 |
| Tin (Sn)-Dissolved | | | 102.1 | | % | | 80-120 | 19-SEP-22 |
| Titanium (Ti)-Dissolved | | | 99.1 | | % | | 80-120 | 19-SEP-22 |
| Tungsten (W)-Dissolved | | | 104.0 | | % | | 80-120 | 19-SEP-22 |
| Uranium (U)-Dissolved | | | 102.4 | | % | | 80-120 | 19-SEP-22 |
| Vanadium (V)-Dissolved | | | 104.4 | | % | | 80-120 | 19-SEP-22 |
| Zinc (Zn)-Dissolved | | | 103.5 | | % | | 80-120 | 19-SEP-22 |
| Zirconium (Zr)-Dissolved | | | 105.3 | | % | | 80-120 | 19-SEP-22 |
| WG3763240-13 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0002 | | mg/L | | 0.005 | 19-SEP-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 19-SEP-22 |
| Arsenic (As)-Dissolved | | | <0.0000002 | | mg/L | | 0.001 | 19-SEP-22 |
| Barium (Ba)-Dissolved | | | 0.000005 | | mg/L | | 0.01 | 19-SEP-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 19-SEP-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 19-SEP-22 |
| Boron (B)-Dissolved | | | <0.0005 | | mg/L | | 0.05 | 19-SEP-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000005 | | mg/L | | 0.000017 | 19-SEP-22 |
| Calcium (Ca)-Dissolved | | | <0.002 | | mg/L | | 0.2 | 19-SEP-22 |
| Cesium (Cs)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 19-SEP-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 19-SEP-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 19-SEP-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 19-SEP-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 19-SEP-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 19-SEP-22 |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5864197 | | | | | | | |
| WG3763240-13 MB | | | | | | | | |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 19-SEP-22 |
| Magnesium (Mg)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 19-SEP-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 19-SEP-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 19-SEP-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 19-SEP-22 |
| Phosphorus (P)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 19-SEP-22 |
| Potassium (K)-Dissolved | | | <0.01 | | mg/L | | 0.5 | 19-SEP-22 |
| Rubidium (Rb)-Dissolved | | | <0.000002 | | mg/L | | 0.0002 | 19-SEP-22 |
| Selenium (Se)-Dissolved | | | 0.000010 | | mg/L | | 0.00005 | 19-SEP-22 |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 19-SEP-22 |
| Silver (Ag)-Dissolved | | | <0.0000005 | | mg/L | | 0.0001 | 19-SEP-22 |
| Sodium (Na)-Dissolved | | | <0.005 | | mg/L | | 0.1 | 19-SEP-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 19-SEP-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 19-SEP-22 |
| Tellurium (Te)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 19-SEP-22 |
| Thallium (Tl)-Dissolved | | | <0.000002 | | mg/L | | 0.0003 | 19-SEP-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 19-SEP-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 19-SEP-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 19-SEP-22 |
| Tungsten (W)-Dissolved | | | 0.000030 | | mg/L | | 0.01 | 19-SEP-22 |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.005 | 19-SEP-22 |
| Vanadium (V)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 19-SEP-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.003 | 19-SEP-22 |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 19-SEP-22 |
| WG3763240-9 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0002 | | mg/L | | 0.005 | 19-SEP-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 19-SEP-22 |
| Arsenic (As)-Dissolved | | | <0.0000002 | | mg/L | | 0.001 | 19-SEP-22 |
| Barium (Ba)-Dissolved | | | 0.000005 | | mg/L | | 0.01 | 19-SEP-22 |
| Beryllium (Be)-Dissolved | | | 0.000004 | | mg/L | | 0.001 | 19-SEP-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 19-SEP-22 |
| Boron (B)-Dissolved | | | <0.0005 | | mg/L | | 0.05 | 19-SEP-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000005 | | mg/L | | 0.000017 | 19-SEP-22 |
| Calcium (Ca)-Dissolved | | | <0.002 | | mg/L | | 0.2 | 19-SEP-22 |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|------------|-----------|-------|-----|---------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5864197 | | | | | | | |
| WG3763240-9 | MB | | | | | | | |
| Cesium (Cs)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 19-SEP-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 19-SEP-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 19-SEP-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 19-SEP-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 19-SEP-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 19-SEP-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 19-SEP-22 |
| Magnesium (Mg)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 19-SEP-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 19-SEP-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 19-SEP-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 19-SEP-22 |
| Phosphorus (P)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 19-SEP-22 |
| Potassium (K)-Dissolved | | | <0.01 | | mg/L | | 0.5 | 19-SEP-22 |
| Rubidium (Rb)-Dissolved | | | <0.000002 | | mg/L | | 0.0002 | 19-SEP-22 |
| Selenium (Se)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 19-SEP-22 |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 19-SEP-22 |
| Silver (Ag)-Dissolved | | | <0.0000005 | | mg/L | | 0.0001 | 19-SEP-22 |
| Sodium (Na)-Dissolved | | | <0.005 | | mg/L | | 0.1 | 19-SEP-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 19-SEP-22 |
| Sulfur (S)-Dissolved | | | 0.4 | | mg/L | | 0.5 | 19-SEP-22 |
| Tellurium (Te)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 19-SEP-22 |
| Thallium (Tl)-Dissolved | | | <0.000002 | | mg/L | | 0.0003 | 19-SEP-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 19-SEP-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 19-SEP-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 19-SEP-22 |
| Tungsten (W)-Dissolved | | | 0.000094 | | mg/L | | 0.01 | 19-SEP-22 |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.005 | 19-SEP-22 |
| Vanadium (V)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 19-SEP-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.003 | 19-SEP-22 |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 19-SEP-22 |
| WG3763240-12 | MS | L2732174-1 | | | | | | |
| Aluminum (Al)-Dissolved | | | 115.6 | | % | | 70-130 | 19-SEP-22 |
| Antimony (Sb)-Dissolved | | | 109.7 | | % | | 70-130 | 19-SEP-22 |
| Arsenic (As)-Dissolved | | | 115.5 | | % | | 70-130 | 19-SEP-22 |



Quality Control Report

Workorder: L2732174

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | Effluent | | | | | | | |
| Batch | R5864197 | | | | | | | |
| WG3763240-12 MS | | L2732174-1 | | | | | | |
| Barium (Ba)-Dissolved | | | 112.4 | | % | | 70-130 | 19-SEP-22 |
| Beryllium (Be)-Dissolved | | | 117.5 | | % | | 70-130 | 19-SEP-22 |
| Bismuth (Bi)-Dissolved | | | 126.2 | | % | | 70-130 | 19-SEP-22 |
| Boron (B)-Dissolved | | | 101.5 | | % | | 70-130 | 19-SEP-22 |
| Cadmium (Cd)-Dissolved | | | 116.9 | | % | | 70-130 | 19-SEP-22 |
| Calcium (Ca)-Dissolved | | | N/A | MS-B | % | | - | 19-SEP-22 |
| Cesium (Cs)-Dissolved | | | 115.6 | | % | | 70-130 | 19-SEP-22 |
| Chromium (Cr)-Dissolved | | | 114.2 | | % | | 70-130 | 19-SEP-22 |
| Cobalt (Co)-Dissolved | | | 113.3 | | % | | 70-130 | 19-SEP-22 |
| Copper (Cu)-Dissolved | | | 111.0 | | % | | 70-130 | 19-SEP-22 |
| Iron (Fe)-Dissolved | | | 114.4 | | % | | 70-130 | 19-SEP-22 |
| Lead (Pb)-Dissolved | | | 112.1 | | % | | 70-130 | 19-SEP-22 |
| Lithium (Li)-Dissolved | | | 118.0 | | % | | 70-130 | 19-SEP-22 |
| Magnesium (Mg)-Dissolved | | | N/A | MS-B | % | | - | 19-SEP-22 |
| Manganese (Mn)-Dissolved | | | 115.6 | | % | | 70-130 | 19-SEP-22 |
| Molybdenum (Mo)-Dissolved | | | 116.9 | | % | | 70-130 | 19-SEP-22 |
| Nickel (Ni)-Dissolved | | | 113.8 | | % | | 70-130 | 19-SEP-22 |
| Phosphorus (P)-Dissolved | | | 122.3 | | % | | 70-130 | 19-SEP-22 |
| Potassium (K)-Dissolved | | | 122.0 | | % | | 70-130 | 19-SEP-22 |
| Rubidium (Rb)-Dissolved | | | 112.3 | | % | | 70-130 | 19-SEP-22 |
| Selenium (Se)-Dissolved | | | 120.3 | | % | | 70-130 | 19-SEP-22 |
| Silicon (Si)-Dissolved | | | 103.8 | | % | | 70-130 | 19-SEP-22 |
| Silver (Ag)-Dissolved | | | 114.8 | | % | | 70-130 | 19-SEP-22 |
| Sodium (Na)-Dissolved | | | N/A | MS-B | % | | - | 19-SEP-22 |
| Strontium (Sr)-Dissolved | | | N/A | MS-B | % | | - | 19-SEP-22 |
| Sulfur (S)-Dissolved | | | 110.0 | | % | | 70-130 | 19-SEP-22 |
| Tellurium (Te)-Dissolved | | | 105.8 | | % | | 70-130 | 19-SEP-22 |
| Thallium (Tl)-Dissolved | | | 112.6 | | % | | 70-130 | 19-SEP-22 |
| Thorium (Th)-Dissolved | | | 119.2 | | % | | 70-130 | 19-SEP-22 |
| Tin (Sn)-Dissolved | | | 107.5 | | % | | 70-130 | 19-SEP-22 |
| Titanium (Ti)-Dissolved | | | 104.2 | | % | | 70-130 | 19-SEP-22 |
| Tungsten (W)-Dissolved | | | 106.5 | | % | | 70-130 | 19-SEP-22 |
| Uranium (U)-Dissolved | | | 113.1 | | % | | 70-130 | 19-SEP-22 |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|-------------------|------------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5864197 | | | | | | | |
| WG3763240-12 MS | | L2732174-1 | | | | | | |
| Vanadium (V)-Dissolved | | | 115.4 | | % | | 70-130 | 19-SEP-22 |
| Zinc (Zn)-Dissolved | | | 114.3 | | % | | 70-130 | 19-SEP-22 |
| Zirconium (Zr)-Dissolved | | | 112.1 | | % | | 70-130 | 19-SEP-22 |
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5866108 | | | | | | | |
| WG3762177-3 DUP | | L2732174-1 | | | | | | |
| Aluminum (Al)-Total | | 0.170 | 0.182 | | mg/L | 7.0 | 20 | 22-SEP-22 |
| Antimony (Sb)-Total | | 0.000035 | 0.000035 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Arsenic (As)-Total | | 0.00054 | 0.00052 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Barium (Ba)-Total | | 0.00990 | 0.00996 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Beryllium (Be)-Total | | <0.0000001 | <0.0000001 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Bismuth (Bi)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Cadmium (Cd)-Total | | 0.000002 | <0.000001 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Calcium (Ca)-Total | | 7.47 | 7.54 | | mg/L | 1.0 | 20 | 22-SEP-22 |
| Cesium (Cs)-Total | | 0.0000320 | 0.0000355 | | mg/L | 9.3 | 20 | 22-SEP-22 |
| Chromium (Cr)-Total | | 0.00060 | 0.00064 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Cobalt (Co)-Total | | 0.000100 | 0.000120 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Copper (Cu)-Total | | 0.00092 | 0.00096 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Iron (Fe)-Total | | 0.251 | 0.257 | | mg/L | 2.5 | 20 | 22-SEP-22 |
| Lead (Pb)-Total | | 0.00012 | 0.00011 | | mg/L | 1.8 | 20 | 22-SEP-22 |
| Lithium (Li)-Total | | 0.0010 | 0.0010 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Magnesium (Mg)-Total | | 2.26 | 2.27 | | mg/L | 0.3 | 20 | 22-SEP-22 |
| Manganese (Mn)-Total | | 0.0180 | 0.0178 | | mg/L | 0.6 | 20 | 22-SEP-22 |
| Molybdenum (Mo)-Total | | 0.000110 | 0.000100 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Nickel (Ni)-Total | | 0.00074 | 0.00076 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Phosphorus (P)-Total | | <0.005 | 0.010 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Potassium (K)-Total | | 0.82 | 0.82 | | mg/L | 0.1 | 20 | 22-SEP-22 |
| Rubidium (Rb)-Total | | 0.00222 | 0.00216 | | mg/L | 2.7 | 20 | 22-SEP-22 |
| Selenium (Se)-Total | | 0.000135 | 0.000125 | | mg/L | 8.7 | 20 | 22-SEP-22 |
| Silicon (Si)-Total | | 1.92 | 1.92 | | mg/L | 0.0 | 20 | 22-SEP-22 |
| Silver (Ag)-Total | | 0.000001 | 0.000001 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Sodium (Na)-Total | | 2.50 | 2.49 | | mg/L | 0.1 | 20 | 22-SEP-22 |
| Strontium (Sr)-Total | | 0.0225 | 0.0222 | | mg/L | 1.0 | 20 | 22-SEP-22 |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-------------------|------------|-----------|-------|------|-------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5866108 | | | | | | | |
| WG3762177-3 | DUP | L2732174-1 | | | | | | |
| Sulfur (S)-Total | | 1.0 | 0.8 | J | mg/L | 0.24 | 1 | 22-SEP-22 |
| Tellurium (Te)-Total | | 0.00004 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Thallium (Tl)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Thorium (Th)-Total | | 0.00004 | 0.00004 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Tin (Sn)-Total | | 0.00002 | 0.00003 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Titanium (Ti)-Total | | 0.00466 | 0.00481 | | mg/L | 3.2 | 20 | 22-SEP-22 |
| Tungsten (W)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Uranium (U)-Total | | 0.0000855 | 0.0000855 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Vanadium (V)-Total | | 0.00080 | 0.00080 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Zinc (Zn)-Total | | <0.0005 | <0.0005 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Zirconium (Zr)-Total | | 0.000208 | 0.000224 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| WG3762177-7 | DUP | L2732191-4 | | | | | | |
| Aluminum (Al)-Total | | 0.0106 | 0.0120 | | mg/L | 12 | 20 | 22-SEP-22 |
| Antimony (Sb)-Total | | 0.00267 | 0.00283 | | mg/L | 5.5 | 20 | 22-SEP-22 |
| Arsenic (As)-Total | | 0.00096 | 0.00097 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Barium (Ba)-Total | | 0.0562 | 0.0559 | | mg/L | 0.6 | 20 | 22-SEP-22 |
| Beryllium (Be)-Total | | <0.0000001 | <0.0000001 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Bismuth (Bi)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Boron (B)-Total | | 0.146 | 0.146 | | mg/L | 0.4 | 20 | 22-SEP-22 |
| Cadmium (Cd)-Total | | 0.000781 | 0.000793 | | mg/L | 1.5 | 20 | 22-SEP-22 |
| Calcium (Ca)-Total | | 217 | 218 | | mg/L | 0.5 | 20 | 22-SEP-22 |
| Cesium (Cs)-Total | | 0.000141 | 0.000142 | | mg/L | 0.7 | 20 | 22-SEP-22 |
| Chromium (Cr)-Total | | 0.00014 | 0.00014 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Cobalt (Co)-Total | | 0.00100 | 0.000970 | | mg/L | 3.2 | 20 | 22-SEP-22 |
| Copper (Cu)-Total | | 0.00214 | 0.00210 | | mg/L | 2.3 | 20 | 22-SEP-22 |
| Iron (Fe)-Total | | 0.0155 | 0.0170 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Lead (Pb)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Lithium (Li)-Total | | 0.0362 | 0.0350 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Magnesium (Mg)-Total | | 57.9 | 58.1 | | mg/L | 0.4 | 20 | 22-SEP-22 |
| Manganese (Mn)-Total | | 0.365 | 0.368 | | mg/L | 0.8 | 20 | 22-SEP-22 |
| Molybdenum (Mo)-Total | | 0.00463 | 0.00458 | | mg/L | 1.0 | 20 | 22-SEP-22 |
| Nickel (Ni)-Total | | 0.0145 | 0.0147 | | mg/L | 1.3 | 20 | 22-SEP-22 |
| Phosphorus (P)-Total | | 0.035 | 0.030 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------|-----------------|-------------------|----------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5866108 | | | | | | | |
| WG3762177-7 | DUP | L2732191-4 | | | | | | |
| Potassium (K)-Total | | 10.9 | 10.8 | | mg/L | 0.9 | 20 | 22-SEP-22 |
| Rubidium (Rb)-Total | | 0.00631 | 0.00626 | | mg/L | 0.9 | 20 | 22-SEP-22 |
| Selenium (Se)-Total | | 0.00211 | 0.00215 | | mg/L | 1.7 | 20 | 22-SEP-22 |
| Silicon (Si)-Total | | 5.42 | 5.32 | | mg/L | 2.0 | 20 | 22-SEP-22 |
| Silver (Ag)-Total | | 0.000002 | 0.000003 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Sodium (Na)-Total | | 60.2 | 59.2 | | mg/L | 1.7 | 20 | 22-SEP-22 |
| Strontium (Sr)-Total | | 1.56 | 1.54 | | mg/L | 1.2 | 20 | 22-SEP-22 |
| Sulfur (S)-Total | | 228 | 226 | | mg/L | 0.9 | 20 | 22-SEP-22 |
| Tellurium (Te)-Total | | 0.00018 | 0.00016 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Thallium (Tl)-Total | | 0.000005 | 0.000005 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Thorium (Th)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Tin (Sn)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Titanium (Ti)-Total | | 0.00027 | 0.00025 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Tungsten (W)-Total | | 0.00004 | 0.00004 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Uranium (U)-Total | | 0.0100 | 0.00991 | | mg/L | 1.1 | 20 | 22-SEP-22 |
| Vanadium (V)-Total | | 0.00035 | 0.00035 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| Zinc (Zn)-Total | | 1.57 | 1.58 | | mg/L | 0.4 | 20 | 22-SEP-22 |
| Zirconium (Zr)-Total | | 0.000012 | 0.000016 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| WG3762177-6 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 107.6 | | % | | 80-120 | 22-SEP-22 |
| Antimony (Sb)-Total | | | 109.9 | | % | | 80-120 | 22-SEP-22 |
| Arsenic (As)-Total | | | 111.5 | | % | | 80-120 | 22-SEP-22 |
| Barium (Ba)-Total | | | 105.8 | | % | | 80-120 | 22-SEP-22 |
| Beryllium (Be)-Total | | | 108.6 | | % | | 80-120 | 22-SEP-22 |
| Bismuth (Bi)-Total | | | 104.7 | | % | | 80-120 | 22-SEP-22 |
| Boron (B)-Total | | | 96.4 | | % | | 80-120 | 22-SEP-22 |
| Cadmium (Cd)-Total | | | 105.1 | | % | | 80-120 | 22-SEP-22 |
| Calcium (Ca)-Total | | | 106.0 | | % | | 80-120 | 22-SEP-22 |
| Cesium (Cs)-Total | | | 107.4 | | % | | 80-120 | 22-SEP-22 |
| Chromium (Cr)-Total | | | 106.6 | | % | | 80-120 | 22-SEP-22 |
| Cobalt (Co)-Total | | | 107.0 | | % | | 80-120 | 22-SEP-22 |
| Copper (Cu)-Total | | | 103.0 | | % | | 80-120 | 22-SEP-22 |
| Iron (Fe)-Total | | | 108.1 | | % | | 80-120 | 22-SEP-22 |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5866108 | | | | | | | |
| WG3762177-6 | LCS | | | | | | | |
| Lead (Pb)-Total | | | 107.9 | | % | | 80-120 | 22-SEP-22 |
| Lithium (Li)-Total | | | 106.4 | | % | | 80-120 | 22-SEP-22 |
| Magnesium (Mg)-Total | | | 105.5 | | % | | 80-120 | 22-SEP-22 |
| Manganese (Mn)-Total | | | 107.1 | | % | | 80-120 | 22-SEP-22 |
| Molybdenum (Mo)-Total | | | 107.5 | | % | | 80-120 | 22-SEP-22 |
| Nickel (Ni)-Total | | | 107.2 | | % | | 80-120 | 22-SEP-22 |
| Phosphorus (P)-Total | | | 109.1 | | % | | 80-120 | 22-SEP-22 |
| Potassium (K)-Total | | | 115.3 | | % | | 80-120 | 22-SEP-22 |
| Rubidium (Rb)-Total | | | 111.8 | | % | | 80-120 | 22-SEP-22 |
| Selenium (Se)-Total | | | 107.1 | | % | | 80-120 | 22-SEP-22 |
| Silicon (Si)-Total | | | 107.5 | | % | | 80-120 | 22-SEP-22 |
| Silver (Ag)-Total | | | 100.8 | | % | | 80-120 | 22-SEP-22 |
| Sodium (Na)-Total | | | 112.7 | | % | | 80-120 | 22-SEP-22 |
| Strontium (Sr)-Total | | | 107.3 | | % | | 80-120 | 22-SEP-22 |
| Sulfur (S)-Total | | | 111.9 | | % | | 80-120 | 22-SEP-22 |
| Tellurium (Te)-Total | | | 102.8 | | % | | 80-120 | 22-SEP-22 |
| Thallium (Tl)-Total | | | 108.3 | | % | | 80-120 | 22-SEP-22 |
| Thorium (Th)-Total | | | 107.9 | | % | | 80-120 | 22-SEP-22 |
| Tin (Sn)-Total | | | 108.6 | | % | | 80-120 | 22-SEP-22 |
| Titanium (Ti)-Total | | | 104.3 | | % | | 80-120 | 22-SEP-22 |
| Tungsten (W)-Total | | | 108.0 | | % | | 80-120 | 22-SEP-22 |
| Uranium (U)-Total | | | 108.4 | | % | | 80-120 | 22-SEP-22 |
| Vanadium (V)-Total | | | 107.6 | | % | | 80-120 | 22-SEP-22 |
| Zinc (Zn)-Total | | | 110.0 | | % | | 80-120 | 22-SEP-22 |
| Zirconium (Zr)-Total | | | 104.7 | | % | | 80-120 | 22-SEP-22 |
| WG3762177-5 | MB | | | | | | | |
| Aluminum (Al)-Total | | | <0.0002 | | mg/L | | 0.005 | 22-SEP-22 |
| Antimony (Sb)-Total | | | <0.000005 | | mg/L | | 0.0006 | 22-SEP-22 |
| Arsenic (As)-Total | | | 0.00004 | | mg/L | | 0.001 | 22-SEP-22 |
| Barium (Ba)-Total | | | <0.00001 | | mg/L | | 0.01 | 22-SEP-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 22-SEP-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 22-SEP-22 |
| Boron (B)-Total | | | 0.0245 | | mg/L | | 0.05 | 22-SEP-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 22-SEP-22 |



Quality Control Report

Workorder: L2732174

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|---------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5866108 | | | | | | | |
| WG3762177-5 MB | | | | | | | | |
| Calcium (Ca)-Total | | | <0.002 | | mg/L | | 0.2 | 22-SEP-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 22-SEP-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 22-SEP-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 22-SEP-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 22-SEP-22 |
| Iron (Fe)-Total | | | <0.0005 | | mg/L | | 0.02 | 22-SEP-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 22-SEP-22 |
| Lithium (Li)-Total | | | 0.0002 | | mg/L | | 0.05 | 22-SEP-22 |
| Magnesium (Mg)-Total | | | <0.0002 | | mg/L | | 0.02 | 22-SEP-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 22-SEP-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 22-SEP-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 22-SEP-22 |
| Phosphorus (P)-Total | | | <0.005 | | mg/L | | 0.05 | 22-SEP-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 22-SEP-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 22-SEP-22 |
| Selenium (Se)-Total | | | <0.000005 | | mg/L | | 0.00005 | 22-SEP-22 |
| Silicon (Si)-Total | | | 0.040 | | mg/L | | 0.1 | 22-SEP-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 22-SEP-22 |
| Sodium (Na)-Total | | | <0.005 | | mg/L | | 0.1 | 22-SEP-22 |
| Strontium (Sr)-Total | | | <0.000005 | | mg/L | | 0.001 | 22-SEP-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 22-SEP-22 |
| Tellurium (Te)-Total | | | 0.00008 | | mg/L | | 0.001 | 22-SEP-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 22-SEP-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 22-SEP-22 |
| Tin (Sn)-Total | | | 0.00002 | | mg/L | | 0.001 | 22-SEP-22 |
| Titanium (Ti)-Total | | | 0.00001 | | mg/L | | 0.002 | 22-SEP-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 22-SEP-22 |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.005 | 22-SEP-22 |
| Vanadium (V)-Total | | | 0.00035 | | mg/L | | 0.001 | 22-SEP-22 |
| Zinc (Zn)-Total | | | <0.0005 | | mg/L | | 0.003 | 22-SEP-22 |
| Zirconium (Zr)-Total | | | <0.000002 | | mg/L | | 0.001 | 22-SEP-22 |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5866342 | | | | | | | |
| WG3764789-2 | LCS | | | | | | | |
| Boron (B)-Total | | | 92.5 | | % | | 80-120 | 24-SEP-22 |
| WG3764789-1 | MB | | | | | | | |
| Boron (B)-Total | | | 0.0040 | | mg/L | | 0.05 | 24-SEP-22 |
| NH3-F-WT | | Effluent | | | | | | |
| Batch | R5862560 | | | | | | | |
| WG3763099-3 | DUP | WG3763099-5 | | | | | | |
| Ammonia, Total (as N) | | 0.008 | 0.006 | RPD-NA | mg/L | N/A | 20 | 16-SEP-22 |
| WG3763099-2 | LCS | | | | | | | |
| Ammonia, Total (as N) | | | 100.0 | | % | | 85-115 | 16-SEP-22 |
| WG3763099-1 | MB | | | | | | | |
| Ammonia, Total (as N) | | | <0.002 | | mg/L | | 0.02 | 16-SEP-22 |
| WG3763099-4 | MS | WG3763099-5 | | | | | | |
| Ammonia, Total (as N) | | | 100.6 | | % | | 75-125 | 16-SEP-22 |
| Batch | R5865419 | | | | | | | |
| WG3763992-3 | DUP | L2732208-4 | | | | | | |
| Ammonia, Total (as N) | | 0.142 | 0.144 | | mg/L | 1.3 | 20 | 21-SEP-22 |
| WG3763993-3 | DUP | L2732290-1 | | | | | | |
| Ammonia, Total (as N) | | 0.016 | 0.016 | RPD-NA | mg/L | N/A | 20 | 22-SEP-22 |
| WG3763992-2 | LCS | | | | | | | |
| Ammonia, Total (as N) | | | 98.4 | | % | | 85-115 | 21-SEP-22 |
| WG3763993-2 | LCS | | | | | | | |
| Ammonia, Total (as N) | | | 100.4 | | % | | 85-115 | 21-SEP-22 |
| WG3763992-1 | MB | | | | | | | |
| Ammonia, Total (as N) | | | <0.002 | | mg/L | | 0.02 | 21-SEP-22 |
| WG3763993-1 | MB | | | | | | | |
| Ammonia, Total (as N) | | | <0.002 | | mg/L | | 0.02 | 21-SEP-22 |
| WG3763992-4 | MS | L2732208-4 | | | | | | |
| Ammonia, Total (as N) | | | N/A | MS-B | % | | - | 21-SEP-22 |
| WG3763993-4 | MS | L2732290-1 | | | | | | |
| Ammonia, Total (as N) | | | 106.3 | | % | | 75-125 | 22-SEP-22 |
| NO2-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5858816 | | | | | | | |
| WG3762142-3 | DUP | L2732174-1 | | | | | | |
| Nitrite (as N) | | <0.001 | <0.001 | RPD-NA | mg/L | N/A | 20 | 11-SEP-22 |
| WG3762142-2 | LCS | | | | | | | |
| Nitrite (as N) | | | 98.5 | | % | | 90-110 | 11-SEP-22 |
| WG3762142-1 | MB | | | | | | | |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| NO2-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5858816 | | | | | | | |
| WG3762142-1 | MB | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 11-SEP-22 |
| WG3762142-4 | MS | L2732174-2 | | | | | | |
| Nitrite (as N) | | | 80.2 | | % | | 75-125 | 11-SEP-22 |
| NO3-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5858816 | | | | | | | |
| WG3762142-3 | DUP | L2732174-1 | | | | | | |
| Nitrate (as N) | | 0.014 | 0.014 | RPD-NA | mg/L | N/A | 20 | 11-SEP-22 |
| WG3762142-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 100.4 | | % | | 90-110 | 11-SEP-22 |
| WG3762142-1 | MB | | | | | | | |
| Nitrate (as N) | | | 0.004 | | mg/L | | 0.02 | 11-SEP-22 |
| WG3762142-4 | MS | L2732174-2 | | | | | | |
| Nitrate (as N) | | | 99.0 | | % | | 75-125 | 11-SEP-22 |
| OGG-TOT-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5863398 | | | | | | | |
| WG3763558-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 92.6 | | % | | 50-150 | 19-SEP-22 |
| WG3763558-1 | MB | | | | | | | |
| Oil and Grease, Total | | | 0.4 | | mg/L | | 1 | 19-SEP-22 |
| P-T-MISA-COL-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5862936 | | | | | | | |
| WG3763106-3 | DUP | L2732165-4 | | | | | | |
| Phosphorus (P)-Total | | 0.0356 | 0.0383 | | mg/L | 7.1 | 25 | 19-SEP-22 |
| WG3763106-2 | LCS | | | | | | | |
| Phosphorus (P)-Total | | | 96.8 | | % | | 70-130 | 19-SEP-22 |
| WG3763106-1 | MB | | | | | | | |
| Phosphorus (P)-Total | | | 0.0013 | | mg/L | | 0.003 | 19-SEP-22 |
| WG3763106-4 | MS | L2732165-4 | | | | | | |
| Phosphorus (P)-Total | | | 96.7 | | % | | 70-130 | 19-SEP-22 |
| SO4-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5858816 | | | | | | | |
| WG3762142-3 | DUP | L2732174-1 | | | | | | |
| Sulfate (SO4) | | 2.55 | 2.55 | | mg/L | 0.5 | 20 | 11-SEP-22 |
| WG3762142-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 101.4 | | % | | 90-110 | 11-SEP-22 |
| WG3762142-1 | MB | | | | | | | |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| SO4-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5858816 | | | | | | | |
| WG3762142-1 | MB | | | | | | | |
| Sulfate (SO4) | | | <0.05 | | mg/L | | 0.3 | 11-SEP-22 |
| WG3762142-4 | MS | L2732174-2 | | | | | | |
| Sulfate (SO4) | | | 98.1 | | % | | 75-125 | 11-SEP-22 |
| TDS-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5857722 | | | | | | | |
| WG3762133-3 | DUP | L2732165-1 | | | | | | |
| Total Dissolved Solids | | 1280 | 1340 | | mg/L | 4.8 | 20 | 10-SEP-22 |
| WG3762133-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 100.4 | | % | | 85-115 | 10-SEP-22 |
| WG3762133-1 | MB | | | | | | | |
| Total Dissolved Solids | | | 10 | | mg/L | | 10 | 10-SEP-22 |
| Batch | R5858059 | | | | | | | |
| WG3762175-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 97.8 | | % | | 85-115 | 11-SEP-22 |
| WG3762175-1 | MB | | | | | | | |
| Total Dissolved Solids | | | 4 | | mg/L | | 10 | 11-SEP-22 |
| TKN-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5864016 | | | | | | | |
| WG3763095-3 | DUP | WG3763095-5 | | | | | | |
| Total Kjeldahl Nitrogen | | 0.60 | 0.60 | | mg/L | 2.5 | 20 | 19-SEP-22 |
| WG3763118-3 | DUP | WG3763118-5 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.05 | 0.95 | | mg/L | 8.7 | 20 | 19-SEP-22 |
| WG3763095-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 107.3 | | % | | 75-125 | 19-SEP-22 |
| WG3763118-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 104.5 | | % | | 75-125 | 19-SEP-22 |
| WG3763095-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.05 | | mg/L | | 0.18 | 19-SEP-22 |
| WG3763118-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.05 | | mg/L | | 0.18 | 19-SEP-22 |
| WG3763095-4 | MS | WG3763095-5 | | | | | | |
| Total Kjeldahl Nitrogen | | | 108 | | % | | 70-130 | 19-SEP-22 |
| WG3763118-4 | MS | WG3763118-5 | | | | | | |
| Total Kjeldahl Nitrogen | | | 96.3 | | % | | 70-130 | 20-SEP-22 |
| TSS-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |



Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|--------|-------------------|--------|-----------|-------|-----|--------|-----------|
| TSS-MISA-TB | | | | | | | | |
| Batch R5857721 | | | | | | | | |
| WG3762135-3 DUP | | L2732165-1 | | | | | | |
| Total Suspended Solids | | 4.0 | 6.0 | J | mg/L | 2.0 | 6 | 10-SEP-22 |
| WG3762135-2 LCS | | | | | | | | |
| Total Suspended Solids | | | 96.0 | | % | | 85-115 | 10-SEP-22 |
| WG3762135-1 MB | | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 10-SEP-22 |
| Batch R5858036 | | | | | | | | |
| WG3762176-2 LCS | | | | | | | | |
| Total Suspended Solids | | | 101.2 | | % | | 85-115 | 11-SEP-22 |
| WG3762176-1 MB | | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 11-SEP-22 |

Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| DUP-H | Duplicate results outside ALS DQO, due to sample heterogeneity. |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0
 Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Colour, True | | | | | | | |
| | 1 | 06-SEP-22 09:55 | 10-SEP-22 12:00 | 3 | 4 | days | EHTR |
| | 2 | 06-SEP-22 11:10 | 10-SEP-22 12:00 | 3 | 4 | days | EHTR |
| | 3 | 06-SEP-22 11:10 | 10-SEP-22 12:00 | 3 | 4 | days | EHTR |
| | 4 | 06-SEP-22 11:40 | 10-SEP-22 12:00 | 3 | 4 | days | EHTR |
| | 5 | 06-SEP-22 12:00 | 10-SEP-22 12:00 | 3 | 4 | days | EHTR |
| | 6 | 06-SEP-22 12:00 | 12-SEP-22 14:00 | 3 | 6 | days | EHTR |
| | 7 | 06-SEP-22 12:00 | 12-SEP-22 14:00 | 3 | 6 | days | EHTR |
| | 8 | 06-SEP-22 12:20 | 12-SEP-22 14:00 | 3 | 6 | days | EHTR |
| | 10 | 06-SEP-22 13:00 | 12-SEP-22 14:00 | 3 | 6 | days | EHTL |
| | 12 | 06-SEP-22 13:15 | 12-SEP-22 14:00 | 3 | 6 | days | EHTL |
| | 14 | 06-SEP-22 14:00 | 12-SEP-22 14:00 | 3 | 6 | days | EHTL |
| | 15 | 06-SEP-22 14:45 | 12-SEP-22 14:00 | 3 | 6 | days | EHTL |
| | 16 | 06-SEP-22 15:10 | 12-SEP-22 14:00 | 3 | 6 | days | EHTL |
| | 17 | 06-SEP-22 15:30 | 12-SEP-22 14:00 | 3 | 6 | days | EHTL |
| | 18 | 07-SEP-22 15:00 | 12-SEP-22 14:00 | 3 | 5 | days | EHT |
| | 20 | 08-SEP-22 08:30 | 12-SEP-22 14:00 | 3 | 4 | days | EHT |
| | 21 | 08-SEP-22 08:30 | 12-SEP-22 14:00 | 3 | 4 | days | EHT |
| Turbidity | | | | | | | |
| | 1 | 06-SEP-22 09:55 | 10-SEP-22 12:15 | 3 | 4 | days | EHTR |
| | 2 | 06-SEP-22 11:10 | 10-SEP-22 12:15 | 3 | 4 | days | EHTR |
| | 3 | 06-SEP-22 11:10 | 10-SEP-22 12:15 | 3 | 4 | days | EHTR |
| | 4 | 06-SEP-22 11:40 | 10-SEP-22 12:15 | 3 | 4 | days | EHTR |
| | 5 | 06-SEP-22 12:00 | 10-SEP-22 12:15 | 3 | 4 | days | EHTR |
| | 6 | 06-SEP-22 12:00 | 10-SEP-22 12:15 | 3 | 4 | days | EHTR |
| | 7 | 06-SEP-22 12:00 | 10-SEP-22 12:15 | 3 | 4 | days | EHTR |
| | 8 | 06-SEP-22 12:20 | 10-SEP-22 12:15 | 3 | 4 | days | EHTR |
| | 10 | 06-SEP-22 13:00 | 10-SEP-22 12:15 | 3 | 4 | days | EHTL |
| | 12 | 06-SEP-22 13:15 | 10-SEP-22 12:15 | 3 | 4 | days | EHTL |
| | 14 | 06-SEP-22 14:00 | 10-SEP-22 12:15 | 3 | 4 | days | EHTL |
| | 15 | 06-SEP-22 14:45 | 10-SEP-22 12:15 | 3 | 4 | days | EHTL |
| | 16 | 06-SEP-22 15:10 | 10-SEP-22 12:15 | 3 | 4 | days | EHTL |
| | 17 | 06-SEP-22 15:30 | 10-SEP-22 12:15 | 3 | 4 | days | EHTL |
| pH | | | | | | | |
| | 1 | 06-SEP-22 09:55 | 16-SEP-22 00:00 | 4 | 10 | days | EHTL |
| | 2 | 06-SEP-22 11:10 | 16-SEP-22 00:00 | 4 | 10 | days | EHTL |
| | 3 | 06-SEP-22 11:10 | 16-SEP-22 00:00 | 4 | 10 | days | EHTL |
| | 4 | 06-SEP-22 11:40 | 16-SEP-22 00:00 | 4 | 10 | days | EHTL |
| | 5 | 06-SEP-22 12:00 | 16-SEP-22 00:00 | 4 | 10 | days | EHTL |
| | 6 | 06-SEP-22 12:00 | 16-SEP-22 00:00 | 4 | 10 | days | EHTL |
| | 7 | 06-SEP-22 12:00 | 16-SEP-22 00:00 | 4 | 10 | days | EHTL |
| | 8 | 06-SEP-22 12:20 | 16-SEP-22 00:00 | 4 | 9 | days | EHTL |
| | 10 | 06-SEP-22 13:00 | 16-SEP-22 00:00 | 4 | 9 | days | EHT |
| | 12 | 06-SEP-22 13:15 | 16-SEP-22 00:00 | 4 | 9 | days | EHT |
| | 14 | 06-SEP-22 14:00 | 16-SEP-22 00:00 | 4 | 9 | days | EHT |
| | 15 | 06-SEP-22 14:45 | 16-SEP-22 00:00 | 4 | 9 | days | EHT |
| | 16 | 06-SEP-22 15:10 | 16-SEP-22 00:00 | 4 | 9 | days | EHT |
| | 17 | 06-SEP-22 15:30 | 16-SEP-22 00:00 | 4 | 9 | days | EHT |
| | 18 | 07-SEP-22 15:00 | 16-SEP-22 00:00 | 4 | 8 | days | EHT |
| | 20 | 08-SEP-22 08:30 | 16-SEP-22 00:00 | 4 | 8 | days | EHT |
| | 21 | 08-SEP-22 08:30 | 16-SEP-22 00:00 | 4 | 8 | days | EHT |

Cyanides

Free Cyanide by Continuous Flow Analyzer

Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0
 Contact: Garnet Cornell

Page 27 of 28

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|--|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Cyanides | | | | | | | |
| Free Cyanide by Continuous Flow Analyzer | | | | | | | |
| | 1 | 06-SEP-22 09:55 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| | 2 | 06-SEP-22 11:10 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| | 3 | 06-SEP-22 11:10 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| | 4 | 06-SEP-22 11:40 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| | 5 | 06-SEP-22 12:00 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| | 6 | 06-SEP-22 12:00 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| | 7 | 06-SEP-22 12:00 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| | 8 | 06-SEP-22 12:20 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| | 10 | 06-SEP-22 13:00 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| | 12 | 06-SEP-22 13:15 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| | 14 | 06-SEP-22 14:00 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| | 15 | 06-SEP-22 14:45 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| | 16 | 06-SEP-22 15:10 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| | 17 | 06-SEP-22 15:30 | 14-SEP-22 16:00 | 7 | 8 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon for MISA | | | | | | | |
| | 10 | 06-SEP-22 13:00 | 14-SEP-22 00:00 | 3 | 7 | days | EHTL |
| | 12 | 06-SEP-22 13:15 | 14-SEP-22 00:00 | 3 | 7 | days | EHTL |
| Metals | | | | | | | |
| Dissolved Orthophosphate | | | | | | | |
| | 1 | 06-SEP-22 09:55 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 2 | 06-SEP-22 11:10 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 3 | 06-SEP-22 11:10 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 4 | 06-SEP-22 11:40 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 5 | 06-SEP-22 12:00 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 6 | 06-SEP-22 12:00 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 7 | 06-SEP-22 12:00 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 8 | 06-SEP-22 12:20 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 10 | 06-SEP-22 13:00 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 12 | 06-SEP-22 13:15 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 14 | 06-SEP-22 14:00 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 15 | 06-SEP-22 14:45 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 16 | 06-SEP-22 15:10 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 17 | 06-SEP-22 15:30 | 15-SEP-22 10:36 | 7 | 9 | days | EHT |
| | 18 | 07-SEP-22 15:00 | 15-SEP-22 10:36 | 7 | 8 | days | EHT |

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
 EHTR: Exceeded ALS recommended hold time prior to sample receipt.
 EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
 EHT: Exceeded ALS recommended hold time prior to analysis.
 Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2732174 were received on 09-SEP-22 12:01.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Page 28 of 28

Contact: Garnet Cornell

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

L2732174

LV



| Project Name: Rainy River | | | | | | Containers | | | | | | | | | | | | |
|---|-------------------------------|---------------------|-----------------|------------------|--------|---------------|---------------|---------------|--|--|--|--|--|--|--|----|--|--|
| Location: Chapple | | | | | | Filtered | SW Kit | Pa-226 Bottle | | | | | | | | | | |
| Project Number: | | | | | | | N | N | | | | | | | | | | |
| Project Manager: | | | | | | | | | | | | | | | | | | |
| PO Number: | | | | | | | | | | | | | | | | | | |
| Project: | | | | | | Preservatives | | | | | | | | | | | | |
| Turn Around Time (days): 10 Business Days | | | | | | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | | |
| Shipping Company: | | | | | | | | | | | | | | | | | | |
| Shipping Date: 9/8/2022 11:26:00 AM | | | | | | | | | | | | | | | | | | |
| COC Number: ALS-448124766 | | | | | | | | | | | | | | | | | | |
| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | | |
| SW16_SW_20220906 | 6.63 | 8.54 | 19.66 | 09/06/2022 09:55 | SW | X | | | | | | | | | | 11 | | |
| SW10_SW_20220906 | 5.62 | 6.74 | 18.04 | 09/06/2022 11:10 | SW | X | | | | | | | | | | 11 | | |
| SW17_SW_20220906 | 6.78 | 8.18 | 19.73 | 09/06/2022 11:10 | SW | X | | | | | | | | | | 11 | | |
| SW28A_SW_20220906 | 8.06 | 7.82 | 16.22 | 09/06/2022 11:40 | SW | X | | | | | | | | | | 11 | | |
| FB_SW_20220906 | | | | 09/06/2022 12:00 | SW | X | | | | | | | | | | 11 | | |
| SW06_SW_20220906 | | | | 09/06/2022 12:00 | SW | X | | | | | | | | | | 11 | | |

1
-2
-3
-4
-5
-6

| Signature | Data/Time | Shipping Details | | ATTN | Special Instructions: |
|-------------|----------------------|--|--|------|--|
| Shipped by | 9/8/2022 11:26:00 AM | Method of Shipment: Courier | | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | 8809 09/09/22, 2:45 | On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | | |

Temp: 14.3

y



12732174

LV



CHAIN OF CUSTODY RECORD - ALS-448124766

| | | | | | | | | | | | | | | | | | |
|--|-------------------------------|---------------------|-----------------|---------------|------------------|---------------|----------------|---|--|--|--|--|--|--|--|----------------------|----------|
| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: | | | | | | Containers | | | | | | | | | | | |
| | | | | | | Filtered | | | | | | | | | | | |
| | | | | | | Preservatives | | | | | | | | | | | |
| Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 9/8/2022 11:26:00 AM COC Number: ALS-448124766 | | | | | | | | | | | | | | | | | |
| | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MIMER-BE | | | | | | | | | Number of Containers | Comments |
| 7 | SW15_SW_20220906 | 4.5 | 8.03 | 20.99 | 09/06/2022 12:00 | SW | X | | | | | | | | | | |
| 8 | SW20_SW_20220906 | 2.25 | 6.96 | 16.66 | 09/06/2022 12:20 | SW | X | | | | | | | | | 12 | |
| 9 | SW20_SW_20220906 | 2.25 | 6.96 | 16.66 | 09/06/2022 12:20 | SW | | X | | | | | | | | 12 | |
| 10 | SW23_SW_20220906 | 4.71 | 8.35 | 18.23 | 09/06/2022 13:00 | SW | X | | | | | | | | | 12 | |
| 11 | SW23_SW_20220906 | 4.71 | 8.35 | 18.23 | 09/06/2022 13:00 | SW | | X | | | | | | | | 12 | |
| 12 | SW24_SW_20220906 | 3.35 | 8.03 | 18.96 | 09/06/2022 13:15 | SW | X | | | | | | | | | 12 | |

| | | | | | | | | | |
|-------------|--|----------------------|--|--|--|------|--|--|--|
| Signature | | Data/Time | | Shipping Details | | ATTN | | Special Instructions: | |
| Shipped by | | 9/8/2022 11:26:00 AM | | Method of Shipment: Courier | | | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com | |
| Received by | | | | On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | | | | |

L2732174

LV

CHAIN OF CUSTODY RECORD - ALS-448124766



| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: | | | | | | Containers | | SW Kit | Ra-226 Bottle | | | | | | | | | | |
|--|-------------------------------|---------------------|-----------------|------------------|--------|------------------------------|--|--------|---------------|--|--|--|----------------------|----------|--|--|--|--|--|
| | | | | | | Filtered | | N | N | | | | | | | | | | |
| | | | | | | Preservatives | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 9/8/2022 11:26:00 AM COC Number: ALS-448124766 | | | | | | NG-SW-P-TB RAZ226-MMER-BE | | | | | | | Number of Containers | Comments | | | | | |
| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | | | | | | | | | | | | | | |
| -13 SW24_SW_20220906 | 3.35 | 8.03 | 18.96 | 09/06/2022 13:15 | SW | | | | | | | | | | | | | | |
| -14 SW03_SW_20220906 | 2.61 | 8.03 | 18.32 | 09/06/2022 14:00 | SW | | | | | | | | | | | | | | |
| -15 SW26_SW_20220906 | 9.05 | 8.03 | 19.23 | 09/06/2022 14:45 | SW | | | | | | | | | | | | | | |
| -16 SW25_SW_20220906 | 7.46 | 7.66 | 18.43 | 09/06/2022 15:10 | SW | | | | | | | | | | | | | | |
| -17 SW02_SW_20220906 | 3.28 | 7.13 | 18.37 | 09/06/2022 15:30 | SW | | | | | | | | | | | | | | |
| -18 SW22A_SW_20220906 | 3.04 | 7.39 | 17.54 | 09/07/2022 15:00 | SW | | | | | | | | | | | | | | |

| Signature | Data/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|----------------------|---|------|--|
| Shipped by | 9/8/2022 11:26:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | | | | |

L2732174

CHAIN OF CUSTODY RECORD - ALS-44812476



| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: | | | | | | Containers SW Kit Ra-226 Bottle | | | | | | Number of Containers | Comments |
|--|-------------------------------|---------------------|-----------------|------------------|--------|--|---------------|--|--|--|--|----------------------|----------|
| Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 9/8/2022 11:26:00 AM COC Number: ALS-448124766 | | | | | | Filtered N N | | | | | | | |
| Preservatives | | | | | | | | | | | | | |
| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | |
| -19 SW22A_SW_20220906 | 3.04 | 7.39 | 17.54 | 09/07/2022 15:00 | SW | | X | | | | | 12 | |
| -20 SW21A_SW_20220906 | 3.06 | 8.25 | 16.96 | 09/08/2022 08:30 | SW | X | | | | | | 11 | |
| -21 SW27_SW_20220906 | 2.81 | 7.39 | 17.45 | 09/08/2022 08:30 | SW | X | | | | | | 11 | |

Drinking Water (DW) Samples
(client use)

Sample Receipt Details (ALS use only)
 Cooling Method: None Ice Ice Packs Frozen Cooling Initiated

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|----------------------|---|------|--|
| Shipped by | 9/8/2022 11:26:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | SS09 09/09/22, 2:45 | | | |

Temp: 14.3



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 07-OCT-22
Report Date: 09-DEC-22 13:46 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2736113
Project P.O. #: 4500062842
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:

<original signed by>

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2736113-1 SW16_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 10:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 8.5 | | 0 | mg/L | | 02-NOV-22 | R5885740 |
| pH, Client Supplied | 5.77 | | 0.10 | pH | | 02-NOV-22 | R5885740 |
| Temperature, Client Supplied | 15.29 | | 0 | Degree C | | 02-NOV-22 | R5885740 |
| Physical Tests | | | | | | | |
| Color, True | 36.8 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 61.0 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | 23.9 | | 0.50 | | | 08-OCT-22 | |
| pH | 7.26 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 5.5 | | 3.0 | mg/L | | 09-OCT-22 | R5871980 |
| Total Dissolved Solids | 48 | | 13 | mg/L | | 09-OCT-22 | R5872021 |
| Turbidity | 4.10 | | 0.10 | NTU | | 11-OCT-22 | R5871976 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.8 | <DL | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 23.8 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.004 | <DL | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 25-OCT-22 | |
| Chloride (Cl) | 2.22 | | 0.10 | mg/L | 09-OCT-22 | 11-OCT-22 | R5872536 |
| Fluoride (F) | 0.026 | | 0.020 | mg/L | 09-OCT-22 | 11-OCT-22 | R5872536 |
| Nitrate (as N) | 0.066 | <T | 0.020 | mg/L | | 11-OCT-22 | R5872536 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 11-OCT-22 | R5872536 |
| Total Kjeldahl Nitrogen | 0.40 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 5.00 | | 0.30 | mg/L | | 11-OCT-22 | R5872536 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Free | 0.0001 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 11.1 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 14.6 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.135 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.000485 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.00886 | | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | 0.000015 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.006 | <DL | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000074 | <T | 0.0000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 6.42 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000284 | | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00054 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-1 SW16_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 10:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Cobalt (Co)-Total | 0.000094 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00100 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.200 | | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Lead (Pb)-Total | 0.00014 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0010 | <T | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 2.02 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Manganese (Mn)-Total | 0.0125 | | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.000140 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Nickel (Ni)-Total | 0.00074 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.014 | <DL | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | 0.688 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00221 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000096 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 1.48 | | 0.10 | mg/L | | 15-OCT-22 | R5874979 |
| Silver (Ag)-Total | 0.0000015 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 2.48 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.0209 | | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Sulfur (S)-Total | 1.10 | | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000040 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Titanium (Ti)-Total | 0.00360 | | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |
| Tungsten (W)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.0000845 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00058 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0014 | <DL | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000188 | <DL | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0240 | <T | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.000470 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.00822 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.006 | <DL | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000070 | <T | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 6.35 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000032 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2736113-1 SW16_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 10:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Chromium (Cr)-Dissolved | 0.00024 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000022 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00095 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Iron (Fe)-Dissolved | 0.057 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | 0.0008 | <DL | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | 1.96 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.00190 | | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-OCT-22 | R5874712 |
| Molybdenum (Mo)-Dissolved | 0.000140 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | 0.00056 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 0.736 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00181 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000118 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 1.50 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000005 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 2.96 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | 0.0203 | | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 1.30 | | 0.50 | mg/L | | 13-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000038 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Titanium (Ti)-Dissolved | <0.00090 | DLUI | 0.00090 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.0000705 | <T | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00030 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0008 | <DL | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000140 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| Chemical Oxygen Demand | 38 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-2 SW20_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 10:55 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 1.35 | | 0 | mg/L | | 02-NOV-22 | R5885740 |
| pH, Client Supplied | 7.64 | | 0.10 | pH | | 02-NOV-22 | R5885740 |
| Temperature, Client Supplied | 13.36 | | 0 | Degree C | | 02-NOV-22 | R5885740 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-2 SW20_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 10:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 100 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 307 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | 156 | | 0.50 | | | 08-OCT-22 | |
| pH | 7.78 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 6.0 | | 3.0 | mg/L | | 09-OCT-22 | R5871980 |
| Total Dissolved Solids | 216 | | 20 | mg/L | | 09-OCT-22 | R5872021 |
| Turbidity | 3.80 | | 0.10 | NTU | | 11-OCT-22 | R5871976 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.6 | <DL | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 141 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.008 | <T | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 25-OCT-22 | |
| Chloride (Cl) | 20.1 | | 0.10 | mg/L | 09-OCT-22 | 11-OCT-22 | R5872536 |
| Fluoride (F) | 0.054 | | 0.020 | mg/L | 09-OCT-22 | 11-OCT-22 | R5872536 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 11-OCT-22 | R5872536 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-OCT-22 | R5872536 |
| Total Kjeldahl Nitrogen | 1.20 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | 0.0093 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 1.00 | <T | 0.30 | mg/L | | 11-OCT-22 | R5872536 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Free | 0.0001 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 29.0 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 29.7 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0622 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000035 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.00100 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.0168 | | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000016 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.014 | <T | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000050 | <T | 0.0000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 33.5 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000086 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00046 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Cobalt (Co)-Total | 0.000244 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00040 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.342 | | 0.010 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-2 SW20_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 10:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Lead (Pb)-Total | 0.00008 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0050 | <T | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 13.8 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Manganese (Mn)-Total | 0.0967 | | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.000155 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Nickel (Ni)-Total | 0.00122 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.040 | <DL | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | 1.31 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00191 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000150 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 3.72 | | 0.10 | mg/L | | 15-OCT-22 | R5874979 |
| Silver (Ag)-Total | 0.0000015 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 8.57 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.0906 | | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Sulfur (S)-Total | 0.65 | | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | 0.000010 | <DL | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Thallium (Tl)-Total | 0.000002 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000034 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Titanium (Ti)-Total | 0.00190 | | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |
| Tungsten (W)-Total | <0.000002 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.000303 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00048 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0012 | DTC | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000252 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0108 | <T | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000045 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.00108 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.0168 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000016 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.014 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000114 | <T | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 35.4 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000008 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000242 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00050 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2736113-2 SW20_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 10:55 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Iron (Fe)-Dissolved | 0.229 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | 0.0048 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | 16.4 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.0779 | | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 14-OCT-22 | R5874712 |
| Molybdenum (Mo)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | 0.00126 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | 0.026 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 1.52 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00182 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000190 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 4.18 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 10.4 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | 0.0902 | | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 0.75 | | 0.50 | mg/L | | 13-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | 0.000010 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000001 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000022 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Tin (Sn)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Titanium (Ti)-Dissolved | 0.00062 | | 0.00030 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.000293 | <T | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00036 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0082 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000260 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| Chemical Oxygen Demand | 82 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 1.4 | | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-3 SW20_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 10:55 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 1.35 | | 0 | mg/L | | 02-NOV-22 | R5885740 |
| pH, Client Supplied | 7.64 | | 0.10 | pH | | 02-NOV-22 | R5885740 |
| Temperature, Client Supplied | 13.36 | | 0 | Degree C | | 02-NOV-22 | R5885740 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.010 | | 0.010 | Bq/L | | 07-DEC-22 | R5904340 |
| L2736113-4 SW17_SW_20221004 | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2736113-4 SW17_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 11:05 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 6.78 | | 0 | mg/L | | 02-NOV-22 | R5885740 |
| pH, Client Supplied | 5.48 | | 0.10 | pH | | 02-NOV-22 | R5885740 |
| Temperature, Client Supplied | 15.63 | | 0 | Degree C | | 02-NOV-22 | R5885740 |
| Physical Tests | | | | | | | |
| Color, True | 52.0 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 78.6 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | 36.7 | | 1.3 | | | 08-OCT-22 | |
| pH | 7.36 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 4.5 | | 3.0 | mg/L | | 09-OCT-22 | R5871980 |
| Total Dissolved Solids | 62 | | 13 | mg/L | | 09-OCT-22 | R5872021 |
| Turbidity | 5.53 | | 0.10 | NTU | | 11-OCT-22 | R5871976 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 31.6 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.020 | <T | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 25-OCT-22 | |
| Chloride (Cl) | 2.40 | | 0.10 | mg/L | 09-OCT-22 | 11-OCT-22 | R5872536 |
| Fluoride (F) | 0.039 | | 0.020 | mg/L | 09-OCT-22 | 11-OCT-22 | R5872536 |
| Nitrate (as N) | 0.028 | <T | 0.020 | mg/L | | 11-OCT-22 | R5872536 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 11-OCT-22 | R5872536 |
| Total Kjeldahl Nitrogen | 0.50 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | 0.0052 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 4.25 | <T | 0.30 | mg/L | | 11-OCT-22 | R5872536 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 15.2 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 13.2 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.259 | | 0.0050 | mg/L | | 17-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000055 | <DL | 0.00010 | mg/L | | 17-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.000660 | <T | 0.00010 | mg/L | | 17-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.0114 | | 0.00010 | mg/L | | 17-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000018 | <DL | 0.00010 | mg/L | | 17-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 17-OCT-22 | R5874979 |
| Boron (B)-Total | 0.006 | <DL | 0.010 | mg/L | | 17-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000174 | <T | 0.0000050 | mg/L | | 17-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 9.47 | | 0.050 | mg/L | | 17-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000434 | | 0.000010 | mg/L | | 17-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00082 | <T | 0.00050 | mg/L | | 17-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-4 SW17_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 11:05 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Cobalt (Co)-Total | 0.000216 | <T | 0.00010 | mg/L | | 17-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00135 | <T | 0.00050 | mg/L | | 17-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.443 | | 0.010 | mg/L | | 17-OCT-22 | R5874979 |
| Lead (Pb)-Total | 0.00024 | <T | 0.000050 | mg/L | | 17-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0010 | <T | 0.0010 | mg/L | | 17-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 3.54 | | 0.0050 | mg/L | | 17-OCT-22 | R5874979 |
| Manganese (Mn)-Total | 0.0421 | | 0.00050 | mg/L | | 17-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.000185 | <T | 0.000050 | mg/L | | 17-OCT-22 | R5874979 |
| Nickel (Ni)-Total | 0.00114 | <T | 0.00050 | mg/L | | 17-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.024 | <DL | 0.050 | mg/L | | 17-OCT-22 | R5874979 |
| Potassium (K)-Total | 0.888 | | 0.050 | mg/L | | 17-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00250 | | 0.00020 | mg/L | | 17-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000112 | <T | 0.000050 | mg/L | | 17-OCT-22 | R5874979 |
| Silicon (Si)-Total | 2.22 | | 0.10 | mg/L | | 17-OCT-22 | R5874979 |
| Silver (Ag)-Total | 0.0000025 | <DL | 0.000050 | mg/L | | 17-OCT-22 | R5874979 |
| Sodium (Na)-Total | 3.19 | | 0.050 | mg/L | | 17-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.0250 | | 0.0010 | mg/L | | 17-OCT-22 | R5874979 |
| Sulfur (S)-Total | 1.55 | DTS | 0.50 | mg/L | | 17-OCT-22 | R5874979 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 17-OCT-22 | R5874979 |
| Thallium (Tl)-Total | 0.000007 | <DL | 0.000010 | mg/L | | 17-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000062 | <DL | 0.00010 | mg/L | | 17-OCT-22 | R5874979 |
| Tin (Sn)-Total | 0.00010 | | 0.00010 | mg/L | | 17-OCT-22 | R5874979 |
| Titanium (Ti)-Total | 0.00860 | | 0.00030 | mg/L | | 17-OCT-22 | R5874979 |
| Tungsten (W)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 17-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.000116 | <T | 0.000010 | mg/L | | 17-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00096 | <T | 0.00050 | mg/L | | 17-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0038 | <T | 0.0030 | mg/L | | 17-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000252 | | 0.00020 | mg/L | | 17-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0494 | <DL | 0.050 | mg/L | | 14-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000070 | <DL | 0.0010 | mg/L | | 14-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.000580 | <DL | 0.0010 | mg/L | | 14-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.0104 | | 0.0010 | mg/L | | 14-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 14-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | 0.000005 | <DL | 0.00050 | mg/L | | 14-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.008 | <DL | 0.10 | mg/L | | 14-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000070 | <DL | 0.000050 | mg/L | | 14-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 9.44 | | 0.50 | mg/L | | 14-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000014 | <DL | 0.00010 | mg/L | | 14-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2736113-4 SW17_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 11:05 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Chromium (Cr)-Dissolved | 0.00036 | <DL | 0.0050 | mg/L | | 14-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000080 | <DL | 0.0010 | mg/L | | 14-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00105 | <DL | 0.0020 | mg/L | | 14-OCT-22 | R5874017 |
| Iron (Fe)-Dissolved | 0.134 | | 0.10 | mg/L | | 14-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | 0.00006 | <DL | 0.00050 | mg/L | | 14-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.010 | mg/L | | 14-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | 3.20 | | 0.050 | mg/L | | 14-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.0317 | | 0.0050 | mg/L | | 14-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 17-OCT-22 | R5875277 |
| Molybdenum (Mo)-Dissolved | 0.000190 | <DL | 0.00050 | mg/L | | 14-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0050 | mg/L | | 14-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | 0.008 | <DL | 0.50 | mg/L | | 14-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 0.886 | | 0.50 | mg/L | | 14-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00203 | | 0.0020 | mg/L | | 14-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000088 | <DL | 0.00050 | mg/L | | 14-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 1.97 | | 0.50 | mg/L | | 14-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000065 | <DL | 0.00050 | mg/L | | 14-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 3.35 | | 0.50 | mg/L | | 14-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | 0.0257 | | 0.010 | mg/L | | 14-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 637 | | 5.0 | mg/L | | 14-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | 0.000050 | <DL | 0.0020 | mg/L | | 14-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 14-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000052 | <DL | 0.0010 | mg/L | | 14-OCT-22 | R5874017 |
| Tin (Sn)-Dissolved | 0.00004 | <DL | 0.0010 | mg/L | | 14-OCT-22 | R5874017 |
| Titanium (Ti)-Dissolved | 0.00142 | <DL | 0.0030 | mg/L | | 14-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 14-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.0000930 | <DL | 0.00010 | mg/L | | 14-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00026 | <DL | 0.0050 | mg/L | | 14-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0010 | <DL | 0.010 | mg/L | | 14-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000164 | <DL | 0.0020 | mg/L | | 14-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| Chemical Oxygen Demand | 43 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 1.6 | | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-5 SW10_SW_20221004 Sampled By: CLIENT on 03-OCT-22 @ 11:25 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 5.57 | | 0 | mg/L | | 02-NOV-22 | R5885740 |
| pH, Client Supplied | 7.86 | | 0.10 | pH | | 02-NOV-22 | R5885740 |
| Temperature, Client Supplied | 13.21 | | 0 | Degree C | | 02-NOV-22 | R5885740 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2736113-5 SW10_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 03-OCT-22 @ 11:25 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 91.8 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 334 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | 171 | | 0.50 | | | 08-OCT-22 | |
| pH | 7.96 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 09-OCT-22 | R5871980 |
| Total Dissolved Solids | 230 | | 20 | mg/L | | 09-OCT-22 | R5872021 |
| Turbidity | 2.03 | | 0.10 | NTU | | 11-OCT-22 | R5871976 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 164 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.012 | <T | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 25-OCT-22 | |
| Chloride (Cl) | 15.7 | | 0.10 | mg/L | 09-OCT-22 | 11-OCT-22 | R5872536 |
| Fluoride (F) | 0.069 | | 0.020 | mg/L | 09-OCT-22 | 11-OCT-22 | R5872536 |
| Nitrate (as N) | 0.002 | <DL | 0.020 | mg/L | | 11-OCT-22 | R5872536 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-OCT-22 | R5872536 |
| Total Kjeldahl Nitrogen | 1.10 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | 0.0093 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 3.05 | <T | 0.30 | mg/L | | 11-OCT-22 | R5872536 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Free | 0.0002 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 27.5 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 28.2 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0396 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000050 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.00112 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.0158 | | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000014 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.020 | <T | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000032 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 38.2 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000054 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00042 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Cobalt (Co)-Total | 0.000142 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00045 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.319 | | 0.010 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-5 SW10_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 03-OCT-22 @ 11:25 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Lead (Pb)-Total | 0.00004 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0072 | <T | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 15.9 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Manganese (Mn)-Total | 0.0311 | | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.000330 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Nickel (Ni)-Total | 0.00146 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.028 | <DL | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | 1.76 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00165 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000154 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 1.87 | | 0.10 | mg/L | | 15-OCT-22 | R5874979 |
| Silver (Ag)-Total | 0.0000015 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 7.60 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.118 | | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Sulfur (S)-Total | 1.40 | | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | 0.000010 | <DL | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Thallium (Tl)-Total | 0.000002 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000024 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Titanium (Ti)-Total | 0.00132 | | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |
| Tungsten (W)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.000544 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00042 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0004 | <DL | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000244 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0080 | <T | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000050 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.00116 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.0162 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000014 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.018 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000012 | <DL | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 38.4 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000026 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000142 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00050 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2736113-5 SW10_SW_20221004 Sampled By: CLIENT on 03-OCT-22 @ 11:25 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Iron (Fe)-Dissolved | 0.260 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | 0.0062 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | 18.2 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.0284 | | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 17-OCT-22 | R5875277 |
| Molybdenum (Mo)-Dissolved | 0.000360 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | 0.00152 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | 0.022 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 1.95 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00159 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000188 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 2.02 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 8.83 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | 0.116 | | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 1.55 | | 0.50 | mg/L | | 13-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | 0.000015 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000020 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Tin (Sn)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Titanium (Ti)-Dissolved | 0.00074 | | 0.00030 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.000518 | <T | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00036 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0022 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000280 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| Chemical Oxygen Demand | 75 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-6 SW28A_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 11:45 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 7.32 | | 0 | mg/L | | 02-NOV-22 | R5885740 |
| pH, Client Supplied | 8.01 | | 0.10 | pH | | 02-NOV-22 | R5885740 |
| Temperature, Client Supplied | 12.81 | | 0 | Degree C | | 02-NOV-22 | R5885740 |
| Physical Tests | | | | | | | |
| Color, True | 81.6 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 383 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-6 SW28A_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 11:45 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Hardness (as CaCO3) | 215 | | 0.50 | | | 08-OCT-22 | |
| pH | 8.12 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 14.5 | | 3.0 | mg/L | | 09-OCT-22 | R5871980 |
| Total Dissolved Solids | 262 | | 20 | mg/L | | 09-OCT-22 | R5872021 |
| Turbidity | 10.6 | | 0.10 | NTU | | 11-OCT-22 | R5871976 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 209 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.010 | <T | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 25-OCT-22 | |
| Chloride (Cl) | 6.56 | | 0.10 | mg/L | 09-OCT-22 | 11-OCT-22 | R5872536 |
| Fluoride (F) | 0.093 | | 0.020 | mg/L | 09-OCT-22 | 11-OCT-22 | R5872536 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 11-OCT-22 | R5872536 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 11-OCT-22 | R5872536 |
| Total Kjeldahl Nitrogen | 1.00 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 2.50 | <T | 0.30 | mg/L | | 11-OCT-22 | R5872536 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 24.8 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 24.7 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.303 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.00149 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.0286 | | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000026 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.018 | <T | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000104 | <T | 0.0000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 46.9 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000452 | | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00076 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Cobalt (Co)-Total | 0.000316 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00110 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.519 | | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Lead (Pb)-Total | 0.00030 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0086 | <T | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 20.4 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-6 SW28A_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 11:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Manganese (Mn)-Total | 0.0351 | | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.000760 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Nickel (Ni)-Total | 0.00152 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.022 | <DL | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | 1.49 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00305 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000146 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 5.67 | | 0.10 | mg/L | | 15-OCT-22 | R5874979 |
| Silver (Ag)-Total | 0.0000030 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 2.50 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.162 | | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Sulfur (S)-Total | 1.05 | | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | 0.000010 | <DL | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Thallium (Tl)-Total | 0.000008 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000066 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Titanium (Ti)-Total | 0.00744 | | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |
| Tungsten (W)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.00123 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00160 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0032 | <T | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000380 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0108 | <T | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000045 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.00149 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.0278 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.018 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000030 | <DL | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 47.7 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000014 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Chromium (Cr)-Dissolved | 0.00014 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000128 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00090 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Iron (Fe)-Dissolved | 0.132 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | 0.0076 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2736113-6 SW28A_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 11:45 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Magnesium (Mg)-Dissolved | 23.4 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.0239 | | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 17-OCT-22 | R5875277 |
| Molybdenum (Mo)-Dissolved | 0.000885 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | 0.00126 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | 0.004 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 1.65 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00206 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000182 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 5.31 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000015 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 3.12 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | 0.166 | | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 1.25 | | 0.50 | mg/L | | 13-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000016 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Tin (Sn)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Titanium (Ti)-Dissolved | 0.00134 | | 0.00030 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.00114 | <T | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00076 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0068 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000248 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| Chemical Oxygen Demand | 72 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 1.6 | | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-7 SW15_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 23:55 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 7.27 | | 0 | mg/L | | 14-OCT-22 | R5874707 |
| pH, Client Supplied | 6.87 | | 0.10 | pH | | 09-OCT-22 | R5871376 |
| Temperature, Client Supplied | 16.06 | | 0 | Degree C | | 09-OCT-22 | R5871376 |
| Physical Tests | | | | | | | |
| Color, True | 95.5 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 216 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | 84.4 | | 0.50 | | | 08-OCT-22 | |
| pH | 7.59 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 7.5 | | 3.0 | mg/L | | 11-OCT-22 | R5872560 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-7 SW15_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 23:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Total Dissolved Solids | 166 | | 13 | mg/L | | 11-OCT-22 | R5872617 |
| Turbidity | 8.09 | | 0.10 | NTU | | 11-OCT-22 | R5872116 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.2 | <DL | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 55.2 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.006 | <T | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 12-OCT-22 | |
| Chloride (Cl) | 5.25 | | 0.10 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Fluoride (F) | 0.039 | | 0.020 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Nitrate (as N) | 0.122 | <T | 0.020 | mg/L | | 09-OCT-22 | R5871897 |
| Nitrite (as N) | 0.014 | <T | 0.010 | mg/L | | 09-OCT-22 | R5871897 |
| Total Kjeldahl Nitrogen | 1.05 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | 0.0031 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 44.3 | | 0.30 | mg/L | | 09-OCT-22 | R5871897 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874456 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874456 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874456 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 21.4 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 20.3 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.211 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000575 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.000925 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.0171 | | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000016 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | 0.000005 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.016 | <T | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000146 | <T | 0.0000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 21.0 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000342 | | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00066 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Cobalt (Co)-Total | 0.000308 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00115 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.426 | | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Lead (Pb)-Total | 0.00024 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0032 | <T | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 6.52 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Manganese (Mn)-Total | 0.0515 | | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.000770 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-7 SW15_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 23:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Nickel (Ni)-Total | 0.00120 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.046 | <DL | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | 3.15 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00301 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000130 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 2.64 | | 0.10 | mg/L | | 15-OCT-22 | R5874979 |
| Silver (Ag)-Total | 0.0000030 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 8.06 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.0797 | | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Sulfur (S)-Total | 13.5 | | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Thallium (Tl)-Total | 0.000007 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000078 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Titanium (Ti)-Total | 0.00616 | | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |
| Tungsten (W)-Total | 0.000012 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.000334 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00096 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0034 | <T | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000308 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0296 | <T | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000605 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.000900 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.0159 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.016 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000138 | <T | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 21.0 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000040 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000216 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00110 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Iron (Fe)-Dissolved | 0.196 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | 0.00008 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | 0.0028 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | 7.74 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.0374 | | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 17-OCT-22 | R5875277 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2736113-7 SW15_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 23:55 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Molybdenum (Mo)-Dissolved | 0.000825 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | 0.00096 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | 0.006 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 3.35 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00257 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000154 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 2.59 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 9.40 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | 0.0739 | | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 14.5 | | 0.50 | mg/L | | 13-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | 0.000015 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000056 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Titanium (Ti)-Dissolved | 0.00174 | | 0.00030 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | 0.000010 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.000290 | <T | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00056 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0020 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000260 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 2.3 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| Chemical Oxygen Demand | 64 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 1.0 | | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-8 FB_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 0.4 | <DL | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | <0.50 | | 0.50 | | | 08-OCT-22 | |
| pH | 5.13 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 09-OCT-22 | R5871980 |
| Total Dissolved Solids | 4 | <DL | 10 | mg/L | | 09-OCT-22 | R5872021 |
| Turbidity | <0.10 | | 0.10 | NTU | | 11-OCT-22 | R5872116 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.2 | <DL | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-8 FB_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Nitrate (as N) | 0.002 | <DL | 0.020 | mg/L | | 09-OCT-22 | R5871897 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 09-OCT-22 | R5871897 |
| Total Kjeldahl Nitrogen | <0.05 | <W | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 0.75 | <T | 0.30 | mg/L | | 09-OCT-22 | R5871897 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0004 | <DL | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | <0.000005 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | <0.00002 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | <0.000002 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.004 | <DL | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | <0.0000002 | <W | 0.0000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 0.015 | <DL | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | <0.0000002 | <W | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00016 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Cobalt (Co)-Total | <0.000002 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | <0.00005 | <W | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | <0.001 | <W | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Lead (Pb)-Total | <0.00002 | <W | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | <0.0002 | <W | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 0.0020 | <DL | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Manganese (Mn)-Total | <0.00002 | <W | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Nickel (Ni)-Total | <0.00002 | <W | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.006 | <DL | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | <0.002 | <W | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | <0.000002 | <W | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | <0.000002 | <W | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 0.036 | <DL | 0.10 | mg/L | | 15-OCT-22 | R5874979 |
| Silver (Ag)-Total | 0.0000005 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 0.020 | <DL | 0.050 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-8 FB_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Strontium (Sr)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Sulfur (S)-Total | <0.05 | <W | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Thallium (Tl)-Total | <0.000001 | <W | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Titanium (Ti)-Total | <0.00002 | <W | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |
| Tungsten (W)-Total | <0.000002 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | <0.00002 | <W | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | <0.0002 | <W | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | <0.000004 | <W | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | <0.0002 | <W | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | <0.000005 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | <0.00002 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.004 | <DL | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | <0.0000002 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000008 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | <0.00005 | <W | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Iron (Fe)-Dissolved | <0.001 | <W | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | <0.00002 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | <0.0005 | <W | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 17-OCT-22 | R5875277 |
| Molybdenum (Mo)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | <0.000002 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 0.038 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000015 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|-------|-----------|-----------|----------|
| L2736113-8 FB_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Sodium (Na)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | <0.05 | <W | 0.50 | mg/L | | 13-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000001 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Tin (Sn)-Dissolved | 0.00005 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.00030 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | <0.000004 | <W | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 1.0 | | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-9 SW06_SW_20221004 Sampled By: CLIENT on 04-OCT-22 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 51.7 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 79.4 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | 34.2 | | 0.50 | | | 08-OCT-22 | |
| pH | 7.34 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 9.0 | | 3.0 | mg/L | | 09-OCT-22 | R5871980 |
| Total Dissolved Solids | 54 | | 13 | mg/L | | 09-OCT-22 | R5872021 |
| Turbidity | 4.92 | | 0.10 | NTU | | 11-OCT-22 | R5872116 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.0 | <DL | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 31.6 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.014 | <T | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Chloride (Cl) | 2.69 | | 0.10 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Fluoride (F) | 0.053 | | 0.020 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Nitrate (as N) | 0.038 | <T | 0.020 | mg/L | | 09-OCT-22 | R5871897 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 09-OCT-22 | R5871897 |
| Total Kjeldahl Nitrogen | 0.65 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | 0.0012 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 4.95 | <T | 0.30 | mg/L | | 09-OCT-22 | R5871897 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|-----------------------------------|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-9 SW06_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 15.3 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 13.3 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.318 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000050 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.000640 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.0118 | | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000018 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | 0.000005 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.006 | <DL | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000250 | <T | 0.0000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 9.44 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000648 | | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00098 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Cobalt (Co)-Total | 0.000292 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00130 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.520 | | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Lead (Pb)-Total | 0.00036 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0014 | <T | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 3.24 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Manganese (Mn)-Total | 0.0474 | | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.000165 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Nickel (Ni)-Total | 0.00114 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.040 | <DL | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | 0.820 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00277 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000090 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 2.14 | | 0.10 | mg/L | | 15-OCT-22 | R5874979 |
| Silver (Ag)-Total | 0.0000030 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 2.69 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.0257 | | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Sulfur (S)-Total | 1.40 | | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Thallium (Tl)-Total | 0.000010 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000082 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Titanium (Ti)-Total | 0.0102 | | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--------------------------------------|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-9 SW06_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tungsten (W)-Total | 0.000008 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.000123 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00114 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0052 | <T | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000284 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0454 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000055 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.000565 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.00978 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.006 | <DL | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000078 | <T | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 8.85 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000038 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Chromium (Cr)-Dissolved | 0.00020 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000066 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00095 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Iron (Fe)-Dissolved | 0.118 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | 0.0010 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | 2.93 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.0288 | | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 17-OCT-22 | R5875277 |
| Molybdenum (Mo)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | 0.00066 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | 0.004 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 0.888 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00183 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000106 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 1.79 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000015 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 3.17 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | 0.0259 | | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 1.50 | | 0.50 | mg/L | | 13-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000003 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000044 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Tin (Sn)-Dissolved | 0.00006 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2736113-9 SW06_SW_20221004 Sampled By: CLIENT on 04-OCT-22 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Titanium (Ti)-Dissolved | 0.00100 | | 0.00030 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.0000900 | <T | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00040 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0026 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000180 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| Chemical Oxygen Demand | 50 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-10 SW24_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 12:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 3.9 | | 0 | mg/L | | 14-OCT-22 | R5874707 |
| pH, Client Supplied | 6.59 | | 0.10 | pH | | 09-OCT-22 | R5871376 |
| Temperature, Client Supplied | 15.17 | | 0 | Degree C | | 09-OCT-22 | R5871376 |
| Physical Tests | | | | | | | |
| Color, True | 89.0 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 314 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | 170 | | 0.50 | | | 08-OCT-22 | |
| pH | 7.96 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 9.5 | | 3.0 | mg/L | | 11-OCT-22 | R5872560 |
| Total Dissolved Solids | 232 | | 20 | mg/L | | 11-OCT-22 | R5872617 |
| Turbidity | 13.6 | | 0.10 | NTU | | 11-OCT-22 | R5872116 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 167 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.012 | <T | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 12-OCT-22 | |
| Chloride (Cl) | 5.80 | | 0.10 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Fluoride (F) | 0.079 | | 0.020 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 09-OCT-22 | R5871897 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 09-OCT-22 | R5871897 |
| Total Kjeldahl Nitrogen | 1.45 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | 0.0131 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 3.10 | <T | 0.30 | mg/L | | 09-OCT-22 | R5871897 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanate | <0.20 | | 0.20 | mg/L | | 17-OCT-22 | R5875536 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-10 SW24_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 12:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Thiocyanate (SCN) | <0.50 | | 0.50 | mg/L | | 17-OCT-22 | R5875576 |
| Cyanide, Free | 0.0007 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 29.1 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 28.9 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.318 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000110 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.00164 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.0202 | | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000026 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | 0.000005 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.016 | <T | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000126 | <T | 0.0000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 39.3 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000544 | | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00082 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Cobalt (Co)-Total | 0.000422 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00120 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.685 | | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Lead (Pb)-Total | 0.00028 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0054 | <T | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 15.4 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Manganese (Mn)-Total | 0.206 | | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.000440 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Nickel (Ni)-Total | 0.00204 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.046 | <DL | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | 1.63 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00251 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000180 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 5.59 | | 0.10 | mg/L | | 15-OCT-22 | R5874979 |
| Silver (Ag)-Total | 0.0000025 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 2.95 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.0896 | | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Sulfur (S)-Total | 1.15 | | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Thallium (Tl)-Total | 0.000007 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000072 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Titanium (Ti)-Total | 0.0101 | | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-10 SW24_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 12:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tungsten (W)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.000569 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00140 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0040 | <T | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000500 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0274 | <T | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000110 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.00163 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.0195 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.014 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000088 | <T | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 38.9 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000024 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000278 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00105 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Iron (Fe)-Dissolved | 0.224 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | 0.00008 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | 0.0046 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | 17.8 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.205 | | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 17-OCT-22 | R5875277 |
| Molybdenum (Mo)-Dissolved | 0.000450 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | 0.00176 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | 0.034 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 1.79 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00182 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000228 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 5.39 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 3.48 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | 0.0901 | | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 1.25 | | 0.50 | mg/L | | 13-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | 0.000015 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000032 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|----------|----------|-----------|-----------|----------|
| L2736113-10 SW24_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 12:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Titanium (Ti)-Dissolved | 0.00202 | | 0.00030 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.000547 | <T | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00072 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0016 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000452 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| BOD Carbonaceous | <2.0 | BODF | 2.0 | mg/L | | 13-OCT-22 | R5876496 |
| Chemical Oxygen Demand | 80 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-11 SW24_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 12:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 3.9 | | 0 | mg/L | | 14-OCT-22 | R5874707 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.010 | | 0.010 | Bq/L | | 07-DEC-22 | R5904340 |
| L2736113-12 SW22A_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 13:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 2.03 | | 0 | mg/L | | 14-OCT-22 | R5874707 |
| pH, Client Supplied | 7.64 | | 0.10 | pH | | 09-OCT-22 | R5871376 |
| Temperature, Client Supplied | 13.66 | | 0 | Degree C | | 09-OCT-22 | R5871376 |
| Physical Tests | | | | | | | |
| Color, True | 53.5 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 444 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | 217 | | 0.50 | | | 08-OCT-22 | |
| pH | 8.00 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 2.0 | <DL | 3.0 | mg/L | | 11-OCT-22 | R5872560 |
| Total Dissolved Solids | 284 | | 20 | mg/L | | 11-OCT-22 | R5872617 |
| Turbidity | 2.14 | | 0.10 | NTU | | 11-OCT-22 | R5872116 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 184 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.010 | <T | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 12-OCT-22 | |
| Chloride (Cl) | 8.62 | | 0.10 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Fluoride (F) | 0.095 | | 0.020 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Nitrate (as N) | 0.028 | <T | 0.020 | mg/L | | 09-OCT-22 | R5871897 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 09-OCT-22 | R5871897 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-12 SW22A_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 13:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Total Kjeldahl Nitrogen | 0.95 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | 0.0078 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 49.3 | | 0.30 | mg/L | | 09-OCT-22 | R5871897 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 21.0 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 31.5 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0674 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000270 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.00108 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.0203 | | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000008 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.034 | <T | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000040 | <DL | 0.0000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 48.6 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000112 | | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00040 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Cobalt (Co)-Total | 0.000130 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00060 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.158 | | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Lead (Pb)-Total | 0.00004 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0096 | <T | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 19.8 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Manganese (Mn)-Total | 0.0600 | | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.00118 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Nickel (Ni)-Total | 0.00120 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | 2.45 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00209 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000176 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 3.78 | | 0.10 | mg/L | | 15-OCT-22 | R5874979 |
| Silver (Ag)-Total | 0.0000010 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 8.94 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.161 | | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Sulfur (S)-Total | 15.3 | | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | 0.000015 | <DL | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-12 SW22A_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 13:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Thallium (Tl)-Total | 0.000002 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000016 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Titanium (Ti)-Total | 0.00224 | | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |
| Tungsten (W)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.00101 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00050 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0010 | <DL | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000184 | <DL | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0270 | <T | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000285 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.00119 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.0201 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.032 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000024 | <DL | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 49.1 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000026 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Chromium (Cr)-Dissolved | 0.00014 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000120 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00065 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Iron (Fe)-Dissolved | 0.064 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | <0.00002 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | 0.0090 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | 23.0 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.0503 | | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 17-OCT-22 | R5875277 |
| Molybdenum (Mo)-Dissolved | 0.00127 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | 0.00124 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | 0.016 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 2.72 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00194 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000242 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 3.84 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000005 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 10.6 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | 0.159 | | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 16.6 | | 0.50 | mg/L | | 13-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|----------|----------|-----------|-----------|----------|
| L2736113-12 SW22A_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 13:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tellurium (Te)-Dissolved | 0.000015 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000001 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000010 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Tin (Sn)-Dissolved | 0.00016 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Titanium (Ti)-Dissolved | 0.00050 | | 0.00030 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.000927 | <T | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00040 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0032 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000196 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Speciated Metals | | | | | | | |
| Methylmercury (as MeHg)-Total | 0.000226 | | 0.000020 | ug/L | 05-NOV-22 | 10-NOV-22 | R5890421 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| Chemical Oxygen Demand | 57 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 1.2 | | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-13 SW22A_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 13:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 2.03 | | 0 | mg/L | | 14-OCT-22 | R5874707 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.010 | | 0.010 | Bq/L | | 07-DEC-22 | R5904340 |
| L2736113-14 SW03_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 14:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 3.86 | | 0 | mg/L | | 14-OCT-22 | R5874707 |
| pH, Client Supplied | 6.92 | | 0.10 | pH | | 09-OCT-22 | R5871376 |
| Temperature, Client Supplied | 14.98 | | 0 | Degree C | | 09-OCT-22 | R5871376 |
| Physical Tests | | | | | | | |
| Color, True | 87.0 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 359 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | 197 | | 0.50 | | | 08-OCT-22 | |
| pH | 7.99 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 14.5 | | 3.0 | mg/L | | 11-OCT-22 | R5872560 |
| Total Dissolved Solids | 274 | | 20 | mg/L | | 11-OCT-22 | R5872617 |
| Turbidity | 15.2 | | 0.10 | NTU | | 11-OCT-22 | R5872116 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 179 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.014 | <T | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-14 SW03_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 14:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 12-OCT-22 | |
| Chloride (Cl) | 10.7 | | 0.10 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Fluoride (F) | 0.072 | | 0.020 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Nitrate (as N) | 0.008 | <DL | 0.020 | mg/L | | 09-OCT-22 | R5871897 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 09-OCT-22 | R5871897 |
| Total Kjeldahl Nitrogen | 1.25 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | 0.0173 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 9.90 | | 0.30 | mg/L | | 09-OCT-22 | R5871897 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Total | 0.0002 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 29.0 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 28.4 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.455 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000090 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.00155 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.0247 | | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000026 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | 0.000005 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.018 | <T | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000160 | <T | 0.0000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 47.7 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000710 | | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00100 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Cobalt (Co)-Total | 0.000380 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00180 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.637 | | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Lead (Pb)-Total | 0.00030 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0062 | <T | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 16.5 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Manganese (Mn)-Total | 0.108 | | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.000465 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Nickel (Ni)-Total | 0.00248 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.064 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | 2.44 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00398 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000200 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 5.94 | | 0.10 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-14 SW03_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 14:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Silver (Ag)-Total | 0.0000035 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 4.16 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.112 | | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Sulfur (S)-Total | 3.30 | | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | 0.000010 | <DL | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Thallium (Tl)-Total | 0.000010 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000072 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | 0.00001 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Titanium (Ti)-Total | 0.0135 | | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |
| Tungsten (W)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.000743 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00180 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0036 | <T | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000432 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0128 | <T | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000100 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.00150 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.0217 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.018 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000068 | <T | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 47.6 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000014 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000182 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00135 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Iron (Fe)-Dissolved | 0.127 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | 0.00006 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | 0.0054 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | 19.0 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.0923 | | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 17-OCT-22 | R5875277 |
| Molybdenum (Mo)-Dissolved | 0.000505 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | 0.00194 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | 0.044 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 2.55 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00263 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000206 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2736113-14 SW03_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 14:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Silicon (Si)-Dissolved | 5.32 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000015 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 4.89 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | 0.113 | | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 3.50 | | 0.50 | mg/L | | 13-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | 0.000015 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000018 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Tin (Sn)-Dissolved | 0.00001 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Titanium (Ti)-Dissolved | 0.00108 | | 0.00030 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.000702 | <T | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00072 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0020 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000280 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| Chemical Oxygen Demand | 79 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-15 SW21A_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 14:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 5.35 | | 0 | mg/L | | 14-OCT-22 | R5874707 |
| pH, Client Supplied | 7.85 | | 0.10 | pH | | 09-OCT-22 | R5871376 |
| Temperature, Client Supplied | 15.97 | | 0 | Degree C | | 09-OCT-22 | R5871376 |
| Physical Tests | | | | | | | |
| Color, True | 63.9 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 374 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | 188 | | 0.50 | | | 08-OCT-22 | |
| pH | 7.99 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 11-OCT-22 | R5872560 |
| Total Dissolved Solids | 254 | | 20 | mg/L | | 11-OCT-22 | R5872617 |
| Turbidity | 1.40 | | 0.10 | NTU | | 11-OCT-22 | R5872116 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 166 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.010 | <T | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 12-OCT-22 | |
| Chloride (Cl) | 8.40 | | 0.10 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Fluoride (F) | 0.080 | | 0.020 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-15 SW21A_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 14:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 09-OCT-22 | R5871897 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 09-OCT-22 | R5871897 |
| Total Kjeldahl Nitrogen | 1.30 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | 0.0110 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 29.6 | | 0.30 | mg/L | | 09-OCT-22 | R5871897 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Total | 0.0002 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 27.2 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 25.7 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0180 | <T | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000200 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.00122 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.0170 | | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000008 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.028 | <T | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000026 | <DL | 0.0000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 40.7 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000046 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00032 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Cobalt (Co)-Total | 0.000214 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00030 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.159 | | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Lead (Pb)-Total | <0.00002 | <W | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0080 | <T | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 17.8 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Manganese (Mn)-Total | 0.176 | | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.000790 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Nickel (Ni)-Total | 0.00114 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.050 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | 2.36 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00272 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000174 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 3.79 | | 0.10 | mg/L | | 15-OCT-22 | R5874979 |
| Silver (Ag)-Total | <0.0000005 | <W | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 7.98 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.134 | | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-15 SW21A_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 14:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Sulfur (S)-Total | 9.55 | | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | 0.000005 | <DL | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Thallium (Tl)-Total | <0.000001 | <W | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Titanium (Ti)-Total | 0.00064 | | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |
| Tungsten (W)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.000520 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00032 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0006 | <DL | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000116 | <DL | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0132 | <T | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000215 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.00130 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.0169 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.028 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000018 | <DL | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 41.7 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000024 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Chromium (Cr)-Dissolved | 0.00012 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000196 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00030 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Iron (Fe)-Dissolved | 0.079 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | <0.00002 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | 0.0072 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | 20.5 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.135 | | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 17-OCT-22 | R5875277 |
| Molybdenum (Mo)-Dissolved | 0.000830 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | 0.00126 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | 0.028 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 2.53 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00271 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000224 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 4.07 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 8.87 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|----------|----------|-----------|-----------|----------|
| L2736113-15 SW21A_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 14:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Strontium (Sr)-Dissolved | 0.135 | | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 10.3 | | 0.50 | mg/L | | 13-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | 0.000015 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000001 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Tin (Sn)-Dissolved | 0.00001 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Titanium (Ti)-Dissolved | 0.00014 | <DL | 0.00030 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.000505 | <T | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00026 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0032 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000140 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| Chemical Oxygen Demand | 72 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-16 SW27_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 14:35 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 3.02 | | 0 | mg/L | | 14-OCT-22 | R5874707 |
| pH, Client Supplied | 7.71 | | 0.10 | pH | | 09-OCT-22 | R5871376 |
| Temperature, Client Supplied | 14.09 | | 0 | Degree C | | 09-OCT-22 | R5871376 |
| Physical Tests | | | | | | | |
| Color, True | 80.6 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 352 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | 192 | | 0.50 | | | 08-OCT-22 | |
| pH | 8.02 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 11-OCT-22 | R5872560 |
| Total Dissolved Solids | 248 | | 20 | mg/L | | 11-OCT-22 | R5872617 |
| Turbidity | 6.29 | | 0.10 | NTU | | 11-OCT-22 | R5872116 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 180 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.008 | <T | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 12-OCT-22 | |
| Chloride (Cl) | 9.23 | | 0.10 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Fluoride (F) | 0.078 | | 0.020 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 09-OCT-22 | R5871897 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 09-OCT-22 | R5871897 |
| Total Kjeldahl Nitrogen | 0.90 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-16 SW27_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 14:35 Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Orthophosphate-Dissolved (as P) | 0.0075 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 9.55 | | 0.30 | mg/L | | 09-OCT-22 | R5871897 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0009 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874456 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874456 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874456 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 25.8 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 23.9 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0914 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000070 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.00110 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.0179 | | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000012 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.018 | <T | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000066 | <T | 0.0000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 44.9 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000126 | | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00048 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Cobalt (Co)-Total | 0.000168 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00110 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.286 | | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Lead (Pb)-Total | 0.00010 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0058 | <T | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 16.0 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Manganese (Mn)-Total | 0.0821 | | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.000600 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Nickel (Ni)-Total | 0.00134 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.020 | <DL | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | 1.79 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00160 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000152 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 3.94 | | 0.10 | mg/L | | 15-OCT-22 | R5874979 |
| Silver (Ag)-Total | 0.0000010 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 3.44 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.110 | | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Sulfur (S)-Total | 3.20 | | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.000020 | mg/L | | 15-OCT-22 | R5874979 |
| Thallium (Tl)-Total | 0.000003 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-16 SW27_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 14:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Thorium (Th)-Total | 0.000036 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Titanium (Ti)-Total | 0.00286 | | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |
| Tungsten (W)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.000949 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00070 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0028 | <DL | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000304 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0086 | <T | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000075 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.00107 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.0171 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.018 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000018 | <DL | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 46.4 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000008 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Chromium (Cr)-Dissolved | 0.00012 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000118 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00115 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Iron (Fe)-Dissolved | 0.117 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | <0.00002 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | 0.0052 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | 18.4 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.0582 | | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 17-OCT-22 | R5875277 |
| Molybdenum (Mo)-Dissolved | 0.000645 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | 0.00136 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | 0.022 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 2.04 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00141 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 4.23 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 4.20 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | 0.114 | | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 3.40 | | 0.50 | mg/L | | 13-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | 0.000025 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|----------|----------|-----------|-----------|----------|
| L2736113-16 SW27_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 14:35 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000022 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Tin (Sn)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Titanium (Ti)-Dissolved | 0.00126 | | 0.00030 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.000872 | <T | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00046 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0020 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000288 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| Chemical Oxygen Demand | 67 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 3.0 | | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-17 SW02_SW_20221004 Sampled By: CLIENT on 03-OCT-22 @ 15:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 5.23 | | 0 | mg/L | | 14-OCT-22 | R5874707 |
| pH, Client Supplied | 7.75 | | 0.10 | pH | | 09-OCT-22 | R5871376 |
| Temperature, Client Supplied | 13.76 | | 0 | Degree C | | 09-OCT-22 | R5871376 |
| Physical Tests | | | | | | | |
| Color, True | 160 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 134 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | 79.1 | | 0.50 | | | 08-OCT-22 | |
| pH | 7.57 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 1.5 | <DL | 3.0 | mg/L | | 09-OCT-22 | R5871980 |
| Total Dissolved Solids | 126 | | 13 | mg/L | | 09-OCT-22 | R5872021 |
| Turbidity | 0.83 | | 0.10 | NTU | | 11-OCT-22 | R5872116 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.4 | <DL | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 71.0 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.018 | <T | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 12-OCT-22 | |
| Chloride (Cl) | 0.25 | | 0.10 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Fluoride (F) | 0.037 | | 0.020 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Nitrate (as N) | 0.008 | <DL | 0.020 | mg/L | | 09-OCT-22 | R5871897 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 09-OCT-22 | R5871897 |
| Total Kjeldahl Nitrogen | 0.95 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 0.15 | <DL | 0.30 | mg/L | | 09-OCT-22 | R5871897 |
| Cyanides | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2736113-17 SW02_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 03-OCT-22 @ 15:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Cyanide, Free | 0.0002 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874337 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 36.4 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 35.8 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0316 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000020 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.000705 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.00958 | | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000008 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.006 | <DL | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000024 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 17.9 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000028 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00038 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Cobalt (Co)-Total | 0.000100 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00015 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.288 | | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Lead (Pb)-Total | 0.00006 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0016 | <T | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 7.27 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Manganese (Mn)-Total | 0.0267 | | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.000050 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Nickel (Ni)-Total | 0.00044 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.006 | <DL | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | 0.422 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00121 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000102 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 6.02 | | 0.10 | mg/L | | 15-OCT-22 | R5874979 |
| Silver (Ag)-Total | <0.0000005 | <W | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 0.715 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.0311 | | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Sulfur (S)-Total | 0.10 | <DL | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Thallium (Tl)-Total | 0.000002 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-17 SW02_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 03-OCT-22 @ 15:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Titanium (Ti)-Total | 0.00062 | | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |
| Tungsten (W)-Total | <0.000002 | <W | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.0000300 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00022 | <DL | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0016 | <DL | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000096 | <DL | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0204 | <T | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000025 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.000720 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.00968 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.008 | <DL | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000018 | <DL | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 18.2 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000094 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00015 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Iron (Fe)-Dissolved | 0.256 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | 0.0014 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | 8.17 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.0228 | | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 17-OCT-22 | R5875277 |
| Molybdenum (Mo)-Dissolved | 0.000060 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | 0.00044 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | 0.004 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 0.456 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00118 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000144 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 6.70 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000005 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 0.765 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | 0.0319 | | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 0.15 | <DL | 0.50 | mg/L | | 13-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000010 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2736113-17 SW02_SW_20221004 Sampled By: CLIENT on 03-OCT-22 @ 15:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tin (Sn)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Titanium (Ti)-Dissolved | 0.00032 | | 0.00030 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.0000260 | <T | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00022 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0014 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000100 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| Chemical Oxygen Demand | 92 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-18 SW23_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 17:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 4.15 | | 0 | mg/L | | 14-OCT-22 | R5874707 |
| pH, Client Supplied | 6.8 | | 0.10 | pH | | 09-OCT-22 | R5871376 |
| Temperature, Client Supplied | 15.11 | | 0 | Degree C | | 09-OCT-22 | R5871376 |
| Physical Tests | | | | | | | |
| Color, True | 91.5 | | 2.0 | CU | | 11-OCT-22 | R5871781 |
| Conductivity (EC) | 309 | | 1.0 | uS/cm | | 11-OCT-22 | R5872436 |
| Hardness (as CaCO3) | 170 | | 0.50 | | | 08-OCT-22 | |
| pH | 7.98 | | 0.10 | pH | | 11-OCT-22 | R5872436 |
| Total Suspended Solids | 9.5 | DLIS | 4.1 | mg/L | | 11-OCT-22 | R5872796 |
| Total Dissolved Solids | 230 | | 13 | mg/L | | 11-OCT-22 | R5872858 |
| Turbidity | N.R | NDLA | 0.10 | NTU | | 11-OCT-22 | R5872116 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 12-OCT-22 | R5873356 |
| Alkalinity, Total (as CaCO3) | 168 | | 2.0 | mg/L | | 11-OCT-22 | R5872436 |
| Ammonia, Total (as N) | 0.024 | <T | 0.0050 | mg/L | | 11-OCT-22 | R5872756 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 12-OCT-22 | |
| Chloride (Cl) | 5.68 | | 0.10 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Fluoride (F) | 0.073 | | 0.020 | mg/L | 09-OCT-22 | 09-OCT-22 | R5871897 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 09-OCT-22 | R5871897 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 09-OCT-22 | R5871897 |
| Total Kjeldahl Nitrogen | 1.15 | | 0.18 | mg/L | 20-OCT-22 | 20-OCT-22 | R5878630 |
| Orthophosphate-Dissolved (as P) | 0.0172 | | 0.0010 | mg/L | 09-OCT-22 | 11-OCT-22 | R5871937 |
| Sulfate (SO4) | 2.00 | <T | 0.30 | mg/L | | 09-OCT-22 | R5871897 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0010 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874456 |
| Cyanide, Total | 0.0014 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874456 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2736113-18 SW23_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 17:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanate | <0.20 | | 0.20 | mg/L | | 17-OCT-22 | R5875536 |
| Thiocyanate (SCN) | <0.50 | | 0.50 | mg/L | | 17-OCT-22 | R5875576 |
| Cyanide, Free | 0.0015 | <DL | 0.0020 | mg/L | | 13-OCT-22 | R5874456 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 30.1 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Organic Carbon | 28.9 | | 0.50 | mg/L | | 13-OCT-22 | R5874399 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.366 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Antimony (Sb)-Total | 0.000070 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Arsenic (As)-Total | 0.00161 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Barium (Ba)-Total | 0.0203 | | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Beryllium (Be)-Total | 0.000028 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Bismuth (Bi)-Total | 0.000005 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Boron (B)-Total | 0.016 | <T | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Cadmium (Cd)-Total | 0.0000110 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Calcium (Ca)-Total | 39.1 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Cesium (Cs)-Total | 0.0000566 | | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Chromium (Cr)-Total | 0.00096 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Cobalt (Co)-Total | 0.000418 | <T | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Copper (Cu)-Total | 0.00120 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Iron (Fe)-Total | 0.729 | | 0.010 | mg/L | | 15-OCT-22 | R5874979 |
| Lead (Pb)-Total | 0.00030 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Lithium (Li)-Total | 0.0056 | <T | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Magnesium (Mg)-Total | 15.4 | | 0.0050 | mg/L | | 15-OCT-22 | R5874979 |
| Manganese (Mn)-Total | 0.172 | | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5873405 |
| Molybdenum (Mo)-Total | 0.000405 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Nickel (Ni)-Total | 0.00208 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Phosphorus (P)-Total | 0.060 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Potassium (K)-Total | 1.54 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Rubidium (Rb)-Total | 0.00270 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Selenium (Se)-Total | 0.000182 | <T | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Silicon (Si)-Total | 5.72 | | 0.10 | mg/L | | 15-OCT-22 | R5874979 |
| Silver (Ag)-Total | 0.0000035 | <DL | 0.000050 | mg/L | | 15-OCT-22 | R5874979 |
| Sodium (Na)-Total | 2.83 | | 0.050 | mg/L | | 15-OCT-22 | R5874979 |
| Strontium (Sr)-Total | 0.0857 | | 0.0010 | mg/L | | 15-OCT-22 | R5874979 |
| Sulfur (S)-Total | 0.95 | | 0.50 | mg/L | | 15-OCT-22 | R5874979 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Thallium (Tl)-Total | 0.000007 | <DL | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Thorium (Th)-Total | 0.000084 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2736113-18 SW23_SW_20221004 | | | | | | | |
| Sampled By: CLIENT on 04-OCT-22 @ 17:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Titanium (Ti)-Total | 0.0116 | | 0.00030 | mg/L | | 15-OCT-22 | R5874979 |
| Tungsten (W)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 15-OCT-22 | R5874979 |
| Uranium (U)-Total | 0.000572 | <T | 0.000010 | mg/L | | 15-OCT-22 | R5874979 |
| Vanadium (V)-Total | 0.00156 | <T | 0.00050 | mg/L | | 15-OCT-22 | R5874979 |
| Zinc (Zn)-Total | 0.0032 | <T | 0.0030 | mg/L | | 15-OCT-22 | R5874979 |
| Zirconium (Zr)-Total | 0.000512 | | 0.00020 | mg/L | | 15-OCT-22 | R5874979 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 13-OCT-22 | R5873736 |
| Aluminum (Al)-Dissolved | 0.0256 | <T | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Antimony (Sb)-Dissolved | 0.000080 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Arsenic (As)-Dissolved | 0.00155 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Barium (Ba)-Dissolved | 0.0199 | | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Boron (B)-Dissolved | 0.014 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Cadmium (Cd)-Dissolved | 0.0000054 | <T | 0.0000050 | mg/L | | 13-OCT-22 | R5874017 |
| Calcium (Ca)-Dissolved | 38.8 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Cobalt (Co)-Dissolved | 0.000260 | <T | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Copper (Cu)-Dissolved | 0.00105 | <T | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Iron (Fe)-Dissolved | 0.228 | | 0.010 | mg/L | | 13-OCT-22 | R5874017 |
| Lead (Pb)-Dissolved | 0.00008 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Lithium (Li)-Dissolved | 0.0046 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Magnesium (Mg)-Dissolved | 17.7 | | 0.0050 | mg/L | | 13-OCT-22 | R5874017 |
| Manganese (Mn)-Dissolved | 0.168 | | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 17-OCT-22 | R5875277 |
| Molybdenum (Mo)-Dissolved | 0.000415 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Nickel (Ni)-Dissolved | 0.00174 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Phosphorus (P)-Dissolved | 0.030 | <DL | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Potassium (K)-Dissolved | 1.68 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Rubidium (Rb)-Dissolved | 0.00176 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Selenium (Se)-Dissolved | 0.000232 | <T | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Silicon (Si)-Dissolved | 5.69 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.000050 | mg/L | | 13-OCT-22 | R5874017 |
| Sodium (Na)-Dissolved | 3.33 | | 0.050 | mg/L | | 13-OCT-22 | R5874017 |
| Strontium (Sr)-Dissolved | 0.0874 | | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Sulfur (S)-Dissolved | 1.10 | | 0.50 | mg/L | | 13-OCT-22 | R5874017 |
| Tellurium (Te)-Dissolved | 0.000010 | <DL | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Thorium (Th)-Dissolved | 0.000032 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2736113-18 SW23_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 17:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tin (Sn)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Titanium (Ti)-Dissolved | 0.00166 | | 0.00030 | mg/L | | 13-OCT-22 | R5874017 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 13-OCT-22 | R5874017 |
| Uranium (U)-Dissolved | 0.000537 | <T | 0.000010 | mg/L | | 13-OCT-22 | R5874017 |
| Vanadium (V)-Dissolved | 0.00070 | <T | 0.00050 | mg/L | | 13-OCT-22 | R5874017 |
| Zinc (Zn)-Dissolved | 0.0014 | <T | 0.0010 | mg/L | | 13-OCT-22 | R5874017 |
| Zirconium (Zr)-Dissolved | 0.000404 | | 0.00020 | mg/L | | 13-OCT-22 | R5874017 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 09-OCT-22 | R5874641 |
| BOD Carbonaceous | <2.0 | BODF | 2.0 | mg/L | | 13-OCT-22 | R5876496 |
| Chemical Oxygen Demand | 77 | | 10 | mg/L | 08-OCT-22 | 12-OCT-22 | R5872776 |
| Oil and Grease, Total | 1.6 | | 1.0 | mg/L | 13-OCT-22 | 13-OCT-22 | R5873696 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2736113-19 SW23_SW_20221004 Sampled By: CLIENT on 04-OCT-22 @ 17:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 4.15 | | 0 | mg/L | | 14-OCT-22 | R5874707 |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.010 | | 0.010 | Bq/L | | 07-DEC-22 | R5904340 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------|-------------------------|-----------|--|
| Matrix Spike | Cyanate | MS-B | L2736113-10, -18 |
| Matrix Spike | Total Kjeldahl Nitrogen | MS-B | L2736113-1, -10, -12, -14, -15, -16, -17, -2, -4, -5, -6, -7, -8, -9 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| BODF | BOD analyzed from frozen (preserved) sample. Hold time for unpreserved samples was exceeded, but freezing can extend hold time to at least 1 month, according to ISO 5667-3 (2018). |
| DLIS | Detection Limit Adjusted: Insufficient Sample |
| DLUI | Detection Limit Raised: Unknown Interference generated an apparent false positive test result. |
| DTC | Dissolved concentration exceeds total. Results were confirmed by re-analysis. |
| DTS | Dissolved Sulfur concentration exceeds total. Negative bias on Total Sulfur suspected due to presence of volatile sulfur species lost during digestion. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| NDLA | No Data: Sample spoiled in Laboratory Accident |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|----------|---|--|
| ACY-MISA-TB | Effluent | Acidity (as CaCO ₃) | APHA 2310 B-POTENTIOMETRIC TITRATION |
| Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample. | | | |
| ALK-MISA-TB | Effluent | Alkalinity, Total (as CaCO ₃) | APHA 2320 B-Auto-Pot. Titration |
| This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. | | | |
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
| All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation. | | | |
| C-DIS-ORG-LOW-CL | Water | Dissolved Organic Carbon | APHA 5310 B-Instrumental |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| C-TOT-ORG-LOW-CL | Water | Total Organic Carbon | APHA 5310 TOTAL ORGANIC CARBON (TOC) |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| CBOD-TB | Water | Carbonaceous BOD | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
| All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation. | | | |
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| CN-CNO-WT | Water | Cyanate | APHA 4500-CN-L |
| This analysis is carried out using procedures adapted from APHA method 4500-CN "Cyanide". Cyanate is determined by the Cyanate hydrolysis | | | |

Reference Information

method using an ammonia selective electrode

| | | | |
|---------------------|----------|--|--------------------------|
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
|---------------------|----------|--|--------------------------|

This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis.

| | | | |
|-----------|-------|-----------------------|----------------------|
| CN-SCN-VA | Water | Thiocyanate by Colour | APHA 4500-CN CYANIDE |
|-----------|-------|-----------------------|----------------------|

This analysis is carried out using procedures adapted from APHA Method 4500-CN- M "Thiocyanate" Thiocyanate is determined by the ferric nitrate colourimetric method.

Water samples containing high levels of hexavalent chromium, cyanide (together with sulfide), reducing agents, or hydrocarbons may cause negative or positive interferences with this method. Contact ALS for additional information if required.

| | | | |
|------------------|----------|----------------------|-----------------------------|
| CN-T-MISA-CFA-WT | Effluent | Total Cyanide by CFA | ISO 14403-2:2012 (modified) |
|------------------|----------|----------------------|-----------------------------|

This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis.

Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero.

| | | | |
|--------------------|----------|--------------------------------------|---------------------------------|
| CN-WAD-MISA-CFA-WT | Effluent | Weak Acid Dissociable Cyanide by CFA | APHA 4500-CN CYANIDE (modified) |
|--------------------|----------|--------------------------------------|---------------------------------|

This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

| | | | |
|--------|-------|------------------------|------------|
| COD-TB | Water | Chemical Oxygen Demand | APHA 5220D |
|--------|-------|------------------------|------------|

This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method.

| | | | |
|-----------|-------|--------------|-------------|
| COLOUR-TB | Water | Colour, True | APHA 2120 C |
|-----------|-------|--------------|-------------|

True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard.

| | | | |
|--------------|-------|-----------------------------------|---------------------------|
| DO-CLIENT-TB | Water | Dissolved Oxygen, Client Supplied | Result supplied by Client |
|--------------|-------|-----------------------------------|---------------------------|

| | | | |
|------------|----------|-------------------|-----------------------|
| EC-MISA-TB | Effluent | Conductivity (EC) | APHA 2510 B-ELECTRODE |
|------------|----------|-------------------|-----------------------|

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

| | | | |
|-----------|-------|-------------------------|-----------------|
| F-IC-N-TB | Water | Fluoride in Water by IC | EPA 300.1 (mod) |
|-----------|-------|-------------------------|-----------------|

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

| | | | |
|------------------|----------|----------------------------------|-------------|
| HARDNESS-CALC-TB | Effluent | Hardness (as CaCO ₃) | CALCULATION |
|------------------|----------|----------------------------------|-------------|

| | | | |
|-----------|----------|---------------------------------|-------------|
| HG-DIS-WT | Effluent | Mercury (Hg)-Dissolved for MISA | SW846 7470A |
|-----------|----------|---------------------------------|-------------|

| | | | |
|-----------|----------|-----------------------------|-------------|
| HG-TOT-WT | Effluent | Mercury (Hg)-Total for MISA | SW846 7470A |
|-----------|----------|-----------------------------|-------------|

| | | | |
|----------------|-------|---------------------------------------|----------------|
| MEHG-T-GCAF-VA | Water | Total Methylmercury in Water by GCAFS | EPA 1630 (mod) |
|----------------|-------|---------------------------------------|----------------|

This method follows Method 1630 of the US EPA. Samples are distilled under an inert gas flow to isolate methylmercury and minimize matrix interferences. The distillate is analyzed by aqueous phase ethylation, purge and trap, desorption and GC separation. The separated species are then pyrolyzed to elemental Hg and quantified by cold vapour atomic fluorescence spectroscopy. Results are reported "as MeHg".

| | | | |
|------------------|----------|--|-----------|
| MET-D-MISA-MS-WT | Effluent | Diss. Metals in Effluent by ICPMS (MISA) | EPA 200.8 |
|------------------|----------|--|-----------|

The concentration of metals determined on an filtered effluent sample for the MISA regulation. The samples are analyzed directly (undigested) by ICP-MS.

| | | | |
|------------------|----------|-----------------------|-----------|
| MET-T-MISA-MS-WT | Effluent | Total Metals by ICPMS | EPA 200.8 |
|------------------|----------|-----------------------|-----------|

The concentration of metals determined on an unfiltered effluent sample for the MISA regulation. The samples are digested in acid and analyzed by ICP-MS.

| | | | |
|---------------|----------|------------------------------|--|
| NH3-MISA-F-TB | Effluent | Ammonia by Discrete Analyzer | catnr 157/158 062217/99321057 (modified) |
|---------------|----------|------------------------------|--|

Ammonia is determined by Flow-injection analysis with fluorescence detection

Reference Information

| | | | |
|---|----------|----------------------------------|---------------------------------------|
| NH3-UNION-CALC-TB | Effluent | Un-ionized ammonia | Calculation |
| NO2-MISA-IC-TB | Effluent | Nitrite in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| NO3-MISA-IC-TB | Effluent | Nitrate in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| OGG-TOT-WT | Effluent | Oil and Grease, Total for MISA | APHA 5520 B-Hexane Gravimetric |
| PH-CLIENT-TB | Water | pH | Result supplied by Client |
| PH-MISA-TB | Effluent | pH | APHA 4500-H-ELECTRODE |
| This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode | | | |
| PO4-DO-COL-TB | Water | Dissolved Orthophosphate | APHA 4500-P B, F, G (modified) |
| Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection. | | | |
| RA226-MMER-BE | Water | Radium 226 | Radium Isotopes by Alpha Spectrometry |
| Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry. | | | |
| SO4-MISA-IC-TB | Effluent | Sulfate in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| TDS-MISA-TB | Effluent | Total Dissolved Solids | APHA 2540 C (modified) |
| Aqueous matrices are analyzed using gravimetry and evaporation | | | |
| TEMP-CLIENT-TB | Water | Temperature | Result supplied by Client |
| TKN-WT | Effluent | Total Kjeldahl Nitrogen for MISA | APHA 4500-N |
| TSS-MISA-TB | Effluent | Total Suspended Solids | APHA 2540 D (modified) |
| Aqueous matrices are analyzed using gravimetry | | | |
| TURBIDITY-TB | Water | Turbidity | APHA 2130 B-Nephelometer |
| Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle. | | | |

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |
| BE | BUREAU VERITAS - MISSISSAUGA, ONTARIO, CANADA |
| CL | ALS ENVIRONMENTAL - CALGARY, ALBERTA, CANADA |
| VA | ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA |

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| BOD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5874641 | | | | | | | |
| WG3767310-3 | DUP | L2736099-1 | | | | | | |
| Biochemical Oxygen Demand | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 30 | 09-OCT-22 |
| WG3767310-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 95.7 | | % | | 85-115 | 09-OCT-22 |
| WG3767310-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 09-OCT-22 |
| C-DIS-ORG-LOW-CL | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5874399 | | | | | | | |
| WG3768120-3 | DUP | L2736099-1 | | | | | | |
| Dissolved Organic Carbon | | 4.11 | 3.91 | | mg/L | 5.0 | 20 | 13-OCT-22 |
| WG3768120-2 | LCS | | | | | | | |
| Dissolved Organic Carbon | | | 112.7 | | % | | 80-120 | 13-OCT-22 |
| WG3768120-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 13-OCT-22 |
| WG3768120-4 | MS | L2736099-1 | | | | | | |
| Dissolved Organic Carbon | | | 99.9 | | % | | 70-130 | 13-OCT-22 |
| C-TOT-ORG-LOW-CL | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5874399 | | | | | | | |
| WG3768120-3 | DUP | L2736099-1 | | | | | | |
| Total Organic Carbon | | 3.56 | 3.61 | | mg/L | 1.5 | 20 | 13-OCT-22 |
| WG3768120-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 108.3 | | % | | 80-120 | 13-OCT-22 |
| WG3768120-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 13-OCT-22 |
| WG3768120-4 | MS | L2736099-1 | | | | | | |
| Total Organic Carbon | | | 104.9 | | % | | 70-130 | 13-OCT-22 |
| CBOD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5876496 | | | | | | | |
| WG3767873-3 | DUP | L2736099-1 | | | | | | |
| BOD Carbonaceous | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 30 | 13-OCT-22 |
| WG3767873-2 | LCS | | | | | | | |
| BOD Carbonaceous | | | 99.4 | | % | | 85-115 | 13-OCT-22 |
| WG3767873-1 | MB | | | | | | | |
| BOD Carbonaceous | | | <2.0 | | mg/L | | 2 | 13-OCT-22 |
| CL-L-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| CL-L-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5871897 | | | | | | | |
| WG3767305-3 | DUP | L2736113-7 | | | | | | |
| Chloride (Cl) | | 5.25 | 5.24 | | mg/L | 0.2 | 20 | 09-OCT-22 |
| WG3767305-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 102.4 | | % | | 90-110 | 09-OCT-22 |
| WG3767305-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 09-OCT-22 |
| WG3767305-4 | MS | L2736113-8 | | | | | | |
| Chloride (Cl) | | | 104.7 | | % | | 75-125 | 09-OCT-22 |
| Batch | R5872536 | | | | | | | |
| WG3767304-3 | DUP | L2736099-1 | | | | | | |
| Chloride (Cl) | | 53.9 | 53.2 | | mg/L | 1.3 | 20 | 11-OCT-22 |
| WG3767304-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 102.4 | | % | | 90-110 | 11-OCT-22 |
| WG3767304-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 11-OCT-22 |
| CN-CNO-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5875536 | | | | | | | |
| WG3768551-3 | DUP | L2736099-1 | | | | | | |
| Cyanate | | 12.9 | 12.6 | | mg/L | 2.4 | 20 | 17-OCT-22 |
| WG3768551-2 | LCS | | | | | | | |
| Cyanate | | | 88.8 | | % | | 85-115 | 17-OCT-22 |
| WG3768551-1 | MB | | | | | | | |
| Cyanate | | | <0.20 | | mg/L | | 0.2 | 17-OCT-22 |
| WG3768551-4 | MS | L2736099-1 | | | | | | |
| Cyanate | | | N/A | MS-B | % | | - | 17-OCT-22 |
| CN-SCN-VA | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5875576 | | | | | | | |
| WG3768556-3 | DUP | L2736099-1 | | | | | | |
| Thiocyanate (SCN) | | 0.63 | 0.64 | | mg/L | 1.6 | 20 | 17-OCT-22 |
| WG3768556-2 | LCS | | | | | | | |
| Thiocyanate (SCN) | | | 98.4 | | % | | 85-115 | 17-OCT-22 |
| WG3768556-1 | MB | | | | | | | |
| Thiocyanate (SCN) | | | <0.50 | | mg/L | | 0.5 | 17-OCT-22 |
| WG3768556-4 | MS | L2736099-2 | | | | | | |
| Thiocyanate (SCN) | | | 85.8 | | % | | 75-125 | 17-OCT-22 |
| COD-TB | Water | | | | | | | |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|------------|-------------------|--------|-----------|-------|-------|--------|-----------|
| COD-TB | | Water | | | | | | |
| Batch R5872776 | | | | | | | | |
| WG3767288-3 | DUP | L2736113-1 | | | | | | |
| Chemical Oxygen Demand | | 38 | 41 | | mg/L | 7.6 | 20 | 12-OCT-22 |
| WG3767288-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 109.9 | | % | | 85-115 | 12-OCT-22 |
| WG3767288-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 12-OCT-22 |
| WG3767288-4 | MS | L2736113-2 | | | | | | |
| Chemical Oxygen Demand | | | 103.7 | | % | | 75-125 | 12-OCT-22 |
| COLOUR-TB | | Water | | | | | | |
| Batch R5871781 | | | | | | | | |
| WG3767301-3 | DUP | L2736099-1 | | | | | | |
| Color, True | | 2.1 | 2.3 | | CU | 7.8 | 20 | 11-OCT-22 |
| WG3767301-2 | LCS | | | | | | | |
| Color, True | | | 103.6 | | % | | 85-115 | 11-OCT-22 |
| WG3767301-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 11-OCT-22 |
| F-IC-N-TB | | Water | | | | | | |
| Batch R5871897 | | | | | | | | |
| WG3767305-3 | DUP | L2736113-7 | | | | | | |
| Fluoride (F) | | 0.039 | 0.057 | J | mg/L | 0.017 | 0.04 | 09-OCT-22 |
| WG3767305-2 | LCS | | | | | | | |
| Fluoride (F) | | | 106.1 | | % | | 90-110 | 09-OCT-22 |
| WG3767305-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 09-OCT-22 |
| WG3767305-4 | MS | L2736113-8 | | | | | | |
| Fluoride (F) | | | 109.0 | | % | | 75-125 | 09-OCT-22 |
| Batch R5872536 | | | | | | | | |
| WG3767304-3 | DUP | L2736099-1 | | | | | | |
| Fluoride (F) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 20 | 11-OCT-22 |
| WG3767304-2 | LCS | | | | | | | |
| Fluoride (F) | | | 106.1 | | % | | 90-110 | 11-OCT-22 |
| WG3767304-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 11-OCT-22 |
| MEHG-T-GCAF-VA | | Water | | | | | | |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|------------|-------------------|-----------|-----------|-------|-----|---------|-----------|
| MEHG-T-GCAF-VA Water | | | | | | | | |
| Batch | R5890421 | | | | | | | |
| WG3772335-2 | LCS | | | | | | | |
| Methylmercury (as MeHg)-Total | | | 81.1 | | % | | 70-130 | 10-NOV-22 |
| WG3772335-1 | MB | | | | | | | |
| Methylmercury (as MeHg)-Total | | | <0.000020 | | ug/L | | 0.00002 | 10-NOV-22 |
| WG3772335-3 | MS | L2736054-3 | | | | | | |
| Methylmercury (as MeHg)-Total | | | 73.9 | | % | | 60-140 | 10-NOV-22 |
| PO4-DO-COL-TB Water | | | | | | | | |
| Batch | R5871937 | | | | | | | |
| WG3767303-3 | DUP | L2736099-1 | | | | | | |
| Orthophosphate-Dissolved (as P) | | 0.0016 | 0.0018 | | mg/L | 12 | 20 | 11-OCT-22 |
| WG3767303-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 102.8 | | % | | 80-120 | 11-OCT-22 |
| WG3767303-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0010 | | mg/L | | 0.001 | 11-OCT-22 |
| WG3767303-4 | MS | L2736099-2 | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 100.6 | | % | | 70-130 | 11-OCT-22 |
| TURBIDITY-TB Water | | | | | | | | |
| Batch | R5871976 | | | | | | | |
| WG3767448-3 | DUP | L2736099-4 | | | | | | |
| Turbidity | | 2.27 | 2.33 | | NTU | 2.6 | 15 | 11-OCT-22 |
| WG3767448-2 | LCS | | | | | | | |
| Turbidity | | | 101.5 | | % | | 85-115 | 11-OCT-22 |
| WG3767448-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 11-OCT-22 |
| Batch | R5872116 | | | | | | | |
| WG3767260-3 | DUP | L2736113-7 | | | | | | |
| Turbidity | | 8.09 | 7.88 | | NTU | 2.6 | 15 | 11-OCT-22 |
| WG3767260-2 | LCS | | | | | | | |
| Turbidity | | | 102.0 | | % | | 85-115 | 11-OCT-22 |
| WG3767260-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 11-OCT-22 |
| ACY-MISA-TB Effluent | | | | | | | | |
| Batch | R5873356 | | | | | | | |
| WG3767299-3 | DUP | L2736113-1 | | | | | | |
| Acidity (as CaCO3) | | 0.8 | 0.6 | RPD-NA | mg/L | N/A | 20 | 12-OCT-22 |
| WG3767299-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 92.8 | | % | | 85-115 | 12-OCT-22 |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| ACY-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5873356 | | | | | | | |
| WG3767299-1 MB | | | | | | | | |
| Acidity (as CaCO3) | | | 2.2 | | mg/L | | 3 | 12-OCT-22 |
| ALK-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5872436 | | | | | | | |
| WG3767297-3 DUP | | L2736113-6 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 209 | 208 | | mg/L | 0.5 | 20 | 11-OCT-22 |
| Alkalinity, Phenolphthalein | | <0.2 | <0.2 | RPD-NA | mg/L | N/A | 25 | 11-OCT-22 |
| WG3767296-2 LCS | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 102.3 | | % | | 85-115 | 11-OCT-22 |
| WG3767297-2 LCS | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 101.0 | | % | | 85-115 | 11-OCT-22 |
| WG3767296-1 MB | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 0.2 | | mg/L | | 2 | 11-OCT-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 11-OCT-22 |
| WG3767297-1 MB | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 0.6 | | mg/L | | 2 | 11-OCT-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 11-OCT-22 |
| CN-FREE-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5874337 | | | | | | | |
| WG3767869-3 DUP | | L2736114-2 | | | | | | |
| Cyanide, Free | | <0.0001 | <0.0001 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| WG3767869-8 DUP | | L2736113-15 | | | | | | |
| Cyanide, Free | | 0.0003 | <0.0001 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| WG3767869-2 LCS | | | | | | | | |
| Cyanide, Free | | | 97.1 | | % | | 80-120 | 13-OCT-22 |
| WG3767869-6 LCS | | | | | | | | |
| Cyanide, Free | | | 98.3 | | % | | 80-120 | 13-OCT-22 |
| WG3767869-1 MB | | | | | | | | |
| Cyanide, Free | | | 0.0001 | | mg/L | | 0.002 | 13-OCT-22 |
| WG3767869-5 MB | | | | | | | | |
| Cyanide, Free | | | 0.0002 | | mg/L | | 0.002 | 13-OCT-22 |
| WG3767869-4 MS | | L2736114-2 | | | | | | |
| Cyanide, Free | | | 106.8 | | % | | 75-125 | 13-OCT-22 |
| WG3767869-7 MS | | L2736113-15 | | | | | | |
| Cyanide, Free | | | 103.0 | | % | | 75-125 | 13-OCT-22 |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| CN-FREE-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5874456 | | | | | | | |
| WG3767876-3 | DUP | L2736113-16 | | | | | | |
| Cyanide, Free | | 0.0006 | 0.0004 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| WG3767876-2 | LCS | | | | | | | |
| Cyanide, Free | | | 101.1 | | % | | 80-120 | 13-OCT-22 |
| WG3767876-1 | MB | | | | | | | |
| Cyanide, Free | | | <0.0001 | | mg/L | | 0.002 | 13-OCT-22 |
| WG3767876-4 | MS | L2736113-16 | | | | | | |
| Cyanide, Free | | | 101.1 | | % | | 75-125 | 13-OCT-22 |
| CN-T-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5874337 | | | | | | | |
| WG3767869-3 | DUP | L2736114-2 | | | | | | |
| Cyanide, Total | | <0.0002 | <0.0002 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| WG3767869-8 | DUP | L2736113-15 | | | | | | |
| Cyanide, Total | | 0.0002 | 0.0002 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| WG3767869-2 | LCS | | | | | | | |
| Cyanide, Total | | | 89.2 | | % | | 80-120 | 13-OCT-22 |
| WG3767869-6 | LCS | | | | | | | |
| Cyanide, Total | | | 87.0 | | % | | 80-120 | 13-OCT-22 |
| WG3767869-1 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 13-OCT-22 |
| WG3767869-5 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 13-OCT-22 |
| WG3767869-4 | MS | L2736114-2 | | | | | | |
| Cyanide, Total | | | 83.8 | | % | | 75-125 | 13-OCT-22 |
| WG3767869-7 | MS | L2736113-15 | | | | | | |
| Cyanide, Total | | | 84.4 | | % | | 75-125 | 13-OCT-22 |
| Batch | R5874456 | | | | | | | |
| WG3767876-3 | DUP | L2736113-16 | | | | | | |
| Cyanide, Total | | 0.0008 | 0.0008 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| WG3767876-2 | LCS | | | | | | | |
| Cyanide, Total | | | 93.1 | | % | | 80-120 | 13-OCT-22 |
| WG3767876-1 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 13-OCT-22 |
| WG3767876-4 | MS | L2736113-16 | | | | | | |
| Cyanide, Total | | | 90.4 | | % | | 75-125 | 13-OCT-22 |
| CN-WAD-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| CN-WAD-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5874337 | | | | | | | |
| WG3767869-3 | DUP | L2736114-2 | | | | | | |
| Cyanide, Weak Acid Diss | | <0.0001 | <0.0001 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| WG3767869-8 | DUP | L2736113-15 | | | | | | |
| Cyanide, Weak Acid Diss | | <0.0001 | <0.0001 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| WG3767869-2 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 106.8 | | % | | 80-120 | 13-OCT-22 |
| WG3767869-6 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 107.3 | | % | | 80-120 | 13-OCT-22 |
| WG3767869-1 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 13-OCT-22 |
| WG3767869-5 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 13-OCT-22 |
| WG3767869-4 | MS | L2736114-2 | | | | | | |
| Cyanide, Weak Acid Diss | | | 104.1 | | % | | 75-125 | 13-OCT-22 |
| WG3767869-7 | MS | L2736113-15 | | | | | | |
| Cyanide, Weak Acid Diss | | | 104.5 | | % | | 75-125 | 13-OCT-22 |
| Batch | R5874456 | | | | | | | |
| WG3767876-3 | DUP | L2736113-16 | | | | | | |
| Cyanide, Weak Acid Diss | | 0.0009 | 0.0007 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| WG3767876-2 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 107.7 | | % | | 80-120 | 13-OCT-22 |
| WG3767876-1 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 13-OCT-22 |
| WG3767876-4 | MS | L2736113-16 | | | | | | |
| Cyanide, Weak Acid Diss | | | 108.2 | | % | | 75-125 | 13-OCT-22 |
| EC-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5872436 | | | | | | | |
| WG3767297-3 | DUP | L2736113-6 | | | | | | |
| Conductivity (EC) | | 383 | 375 | | uS/cm | 2.1 | 10 | 11-OCT-22 |
| WG3767296-2 | LCS | | | | | | | |
| Conductivity (EC) | | | 98.7 | | % | | 90-110 | 11-OCT-22 |
| WG3767297-2 | LCS | | | | | | | |
| Conductivity (EC) | | | 100.2 | | % | | 90-110 | 11-OCT-22 |
| WG3767296-1 | MB | | | | | | | |
| Conductivity (EC) | | | 0.6 | | uS/cm | | 2 | 11-OCT-22 |
| WG3767297-1 | MB | | | | | | | |
| Conductivity (EC) | | | <0.2 | | uS/cm | | 2 | 11-OCT-22 |
| HG-DIS-WT | | | | | | | | |
| | Effluent | | | | | | | |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|------------|--------------------|-----------|-----------|-------|-----|----------|-----------|
| HG-DIS-WT | | Effluent | | | | | | |
| Batch R5874712 | | | | | | | | |
| WG3767910-3 | DUP | L2736099-1 | | | | | | |
| Mercury (Hg)-Dissolved | | 0.000005 | 0.000005 | | mg/L | 11 | 20 | 14-OCT-22 |
| WG3767910-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 111.0 | | % | | 80-120 | 14-OCT-22 |
| WG3767910-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.000005 | 14-OCT-22 |
| WG3767910-4 | MS | L2736099-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 109.1 | | % | | 70-130 | 14-OCT-22 |
| Batch R5875277 | | | | | | | | |
| WG3767913-3 | DUP | L2736113-4 | | | | | | |
| Mercury (Hg)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 17-OCT-22 |
| WG3767913-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 89.1 | | % | | 80-120 | 17-OCT-22 |
| WG3767913-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.000005 | 17-OCT-22 |
| WG3767913-4 | MS | L2736113-5 | | | | | | |
| Mercury (Hg)-Dissolved | | | 80.7 | | % | | 70-130 | 17-OCT-22 |
| HG-TOT-WT | | Effluent | | | | | | |
| Batch R5873405 | | | | | | | | |
| WG3767793-3 | DUP | L2736108-3 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| WG3767793-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 104.0 | | % | | 80-120 | 13-OCT-22 |
| WG3767793-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.000005 | 13-OCT-22 |
| WG3767793-4 | MS | L2736113-1 | | | | | | |
| Mercury (Hg)-Total | | | 96.5 | | % | | 70-130 | 13-OCT-22 |
| MET-D-MISA-MS-WT | | Effluent | | | | | | |
| Batch R5874017 | | | | | | | | |
| WG3767964-4 | DUP | WG3767964-3 | | | | | | |
| Aluminum (Al)-Dissolved | | 0.0164 | 0.0176 | | mg/L | 7.6 | 20 | 13-OCT-22 |
| Antimony (Sb)-Dissolved | | 0.00389 | 0.00394 | | mg/L | 1.1 | 20 | 13-OCT-22 |
| Arsenic (As)-Dissolved | | 0.000660 | 0.000700 | | mg/L | 5.6 | 20 | 13-OCT-22 |
| Barium (Ba)-Dissolved | | 0.0421 | 0.0430 | | mg/L | 2.2 | 20 | 13-OCT-22 |
| Beryllium (Be)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| Bismuth (Bi)-Dissolved | | 0.000010 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| Boron (B)-Dissolved | | 0.154 | 0.154 | | mg/L | 0.0 | 20 | 13-OCT-22 |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|-----------|-----------|-------|-----------|---------|-----------|
| MET-D-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5874017 | | | | | | | |
| WG3767964-4 | DUP | WG3767964-3 | | | | | | |
| Cadmium (Cd)-Dissolved | | 0.0000122 | 0.0000148 | J | mg/L | 0.0000027 | 0.00001 | 13-OCT-22 |
| Calcium (Ca)-Dissolved | | 218 | 219 | | mg/L | 0.2 | 20 | 13-OCT-22 |
| Cesium (Cs)-Dissolved | | 0.000710 | 0.000722 | | mg/L | 1.7 | 25 | 13-OCT-22 |
| Chromium (Cr)-Dissolved | | 0.00008 | 0.00008 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| Cobalt (Co)-Dissolved | | 0.00159 | 0.00161 | | mg/L | 1.1 | 20 | 13-OCT-22 |
| Copper (Cu)-Dissolved | | 0.00060 | 0.00065 | | mg/L | 1.9 | 20 | 13-OCT-22 |
| Iron (Fe)-Dissolved | | 0.117 | 0.117 | | mg/L | 0.7 | 20 | 13-OCT-22 |
| Lead (Pb)-Dissolved | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| Lithium (Li)-Dissolved | | 0.0370 | 0.0366 | | mg/L | 1.1 | 20 | 13-OCT-22 |
| Magnesium (Mg)-Dissolved | | 64.3 | 64.1 | | mg/L | 0.2 | 20 | 13-OCT-22 |
| Manganese (Mn)-Dissolved | | 0.355 | 0.357 | | mg/L | 0.5 | 20 | 13-OCT-22 |
| Molybdenum (Mo)-Dissolved | | 0.00877 | 0.00889 | | mg/L | 1.3 | 20 | 13-OCT-22 |
| Nickel (Ni)-Dissolved | | 0.0120 | 0.0121 | | mg/L | 1.1 | 20 | 13-OCT-22 |
| Phosphorus (P)-Dissolved | | 0.004 | 0.004 | RPD-NA | mg/L | N/A | 25 | 13-OCT-22 |
| Potassium (K)-Dissolved | | 20.7 | 21.1 | | mg/L | 1.6 | 20 | 13-OCT-22 |
| Rubidium (Rb)-Dissolved | | 0.0119 | 0.0117 | | mg/L | 1.7 | 25 | 13-OCT-22 |
| Selenium (Se)-Dissolved | | 0.000696 | 0.000680 | | mg/L | 2.3 | 20 | 13-OCT-22 |
| Silicon (Si)-Dissolved | | 3.40 | 3.39 | | mg/L | 0.2 | 25 | 13-OCT-22 |
| Silver (Ag)-Dissolved | | 0.0000010 | 0.0000010 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| Sodium (Na)-Dissolved | | 77.6 | 78.5 | | mg/L | 1.2 | 20 | 13-OCT-22 |
| Strontium (Sr)-Dissolved | | 1.49 | 1.51 | | mg/L | 1.5 | 20 | 13-OCT-22 |
| Sulfur (S)-Dissolved | | 283 | 269 | | mg/L | 5.3 | 25 | 13-OCT-22 |
| Tellurium (Te)-Dissolved | | 0.000090 | 0.000095 | RPD-NA | mg/L | N/A | 25 | 13-OCT-22 |
| Thallium (Tl)-Dissolved | | 0.000002 | 0.000002 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| Thorium (Th)-Dissolved | | 0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 25 | 13-OCT-22 |
| Tin (Sn)-Dissolved | | 0.00006 | 0.00005 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| Titanium (Ti)-Dissolved | | 0.00002 | 0.00004 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| Tungsten (W)-Dissolved | | 0.000008 | 0.000006 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| Uranium (U)-Dissolved | | 0.0108 | 0.0110 | | mg/L | 1.6 | 20 | 13-OCT-22 |
| Vanadium (V)-Dissolved | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| Zinc (Zn)-Dissolved | | 0.174 | 0.172 | | mg/L | 1.1 | 20 | 13-OCT-22 |
| Zirconium (Zr)-Dissolved | | 0.000032 | 0.000036 | RPD-NA | mg/L | N/A | 20 | 13-OCT-22 |
| WG3767964-1 | MB | | | | | | | |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------|-----------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-MS-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5874017 | | | | | | | |
| WG3767964-1 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | 0.0004 | | mg/L | | 0.005 | 13-OCT-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0001 | 13-OCT-22 |
| Arsenic (As)-Dissolved | | | <0.000005 | | mg/L | | 0.0001 | 13-OCT-22 |
| Barium (Ba)-Dissolved | | | <0.00002 | | mg/L | | 0.0001 | 13-OCT-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 13-OCT-22 |
| Bismuth (Bi)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 13-OCT-22 |
| Boron (B)-Dissolved | | | <0.002 | | mg/L | | 0.01 | 13-OCT-22 |
| Cadmium (Cd)-Dissolved | | | 0.0000010 | | mg/L | | 0.000005 | 13-OCT-22 |
| Calcium (Ca)-Dissolved | | | 0.020 | | mg/L | | 0.05 | 13-OCT-22 |
| Cesium (Cs)-Dissolved | | | 0.0000002 | | mg/L | | 0.00001 | 13-OCT-22 |
| Chromium (Cr)-Dissolved | | | <0.00002 | | mg/L | | 0.0005 | 13-OCT-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 13-OCT-22 |
| Copper (Cu)-Dissolved | | | <0.00005 | | mg/L | | 0.0002 | 13-OCT-22 |
| Iron (Fe)-Dissolved | | | <0.001 | | mg/L | | 0.01 | 13-OCT-22 |
| Lead (Pb)-Dissolved | | | <0.00002 | | mg/L | | 0.00005 | 13-OCT-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.001 | 13-OCT-22 |
| Magnesium (Mg)-Dissolved | | | 0.0035 | | mg/L | | 0.005 | 13-OCT-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.0005 | 13-OCT-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 13-OCT-22 |
| Nickel (Ni)-Dissolved | | | 0.00002 | | mg/L | | 0.0005 | 13-OCT-22 |
| Phosphorus (P)-Dissolved | | | <0.002 | | mg/L | | 0.05 | 13-OCT-22 |
| Potassium (K)-Dissolved | | | 0.004 | | mg/L | | 0.05 | 13-OCT-22 |
| Rubidium (Rb)-Dissolved | | | <0.000002 | | mg/L | | 0.0002 | 13-OCT-22 |
| Selenium (Se)-Dissolved | | | <0.000002 | | mg/L | | 0.00005 | 13-OCT-22 |
| Silicon (Si)-Dissolved | | | <0.002 | | mg/L | | 0.05 | 13-OCT-22 |
| Silver (Ag)-Dissolved | | | 0.0000010 | | mg/L | | 0.00005 | 13-OCT-22 |
| Sodium (Na)-Dissolved | | | 0.005 | | mg/L | | 0.05 | 13-OCT-22 |
| Strontium (Sr)-Dissolved | | | 0.00005 | | mg/L | | 0.001 | 13-OCT-22 |
| Sulfur (S)-Dissolved | | | <0.05 | | mg/L | | 0.5 | 13-OCT-22 |
| Tellurium (Te)-Dissolved | | | <0.000005 | | mg/L | | 0.0002 | 13-OCT-22 |
| Thallium (Tl)-Dissolved | | | <0.000001 | | mg/L | | 0.00001 | 13-OCT-22 |
| Thorium (Th)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 13-OCT-22 |
| Tin (Sn)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 13-OCT-22 |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|-----------|---------|-----------|
| MET-D-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5874017 | | | | | | | |
| WG3767964-1 | MB | | | | | | | |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.0003 | 13-OCT-22 |
| Tungsten (W)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 13-OCT-22 |
| Uranium (U)-Dissolved | | | 0.0000010 | | mg/L | | 0.00001 | 13-OCT-22 |
| Vanadium (V)-Dissolved | | | <0.00002 | | mg/L | | 0.0005 | 13-OCT-22 |
| Zinc (Zn)-Dissolved | | | 0.0004 | | mg/L | | 0.001 | 13-OCT-22 |
| Zirconium (Zr)-Dissolved | | | <0.000004 | | mg/L | | 0.0002 | 13-OCT-22 |
| MET-T-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5874979 | | | | | | | |
| WG3768000-4 | DUP | WG3768000-3 | | | | | | |
| Aluminum (Al)-Total | | 0.135 | 0.141 | | mg/L | 4.7 | 25 | 15-OCT-22 |
| Antimony (Sb)-Total | | 0.000040 | 0.000035 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Arsenic (As)-Total | | 0.000485 | 0.000485 | | mg/L | 0.0 | 25 | 15-OCT-22 |
| Barium (Ba)-Total | | 0.00886 | 0.00888 | | mg/L | 0.2 | 25 | 15-OCT-22 |
| Beryllium (Be)-Total | | 0.000010 | 0.000010 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Bismuth (Bi)-Total | | 0.000015 | 0.000005 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Boron (B)-Total | | 0.006 | 0.006 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Cadmium (Cd)-Total | | 0.0000074 | 0.0000118 | J | mg/L | 0.0000043 | 0.00001 | 15-OCT-22 |
| Calcium (Ca)-Total | | 6.42 | 6.19 | | mg/L | 3.7 | 25 | 15-OCT-22 |
| Cesium (Cs)-Total | | 0.0000284 | 0.0000284 | | mg/L | 0.0 | 25 | 15-OCT-22 |
| Chromium (Cr)-Total | | 0.00054 | 0.00052 | | mg/L | 5.8 | 25 | 15-OCT-22 |
| Cobalt (Co)-Total | | 0.000094 | 0.000092 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Copper (Cu)-Total | | 0.00100 | 0.00095 | | mg/L | 2.5 | 25 | 15-OCT-22 |
| Iron (Fe)-Total | | 0.200 | 0.197 | | mg/L | 1.6 | 25 | 15-OCT-22 |
| Lead (Pb)-Total | | 0.00014 | 0.00014 | | mg/L | 2.8 | 25 | 15-OCT-22 |
| Lithium (Li)-Total | | 0.0010 | 0.0010 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Magnesium (Mg)-Total | | 2.02 | 2.01 | | mg/L | 0.6 | 25 | 15-OCT-22 |
| Manganese (Mn)-Total | | 0.0125 | 0.0123 | | mg/L | 1.7 | 25 | 15-OCT-22 |
| Molybdenum (Mo)-Total | | 0.000140 | 0.000145 | | mg/L | 1.6 | 25 | 15-OCT-22 |
| Nickel (Ni)-Total | | 0.00074 | 0.00096 | J | mg/L | 0.00023 | 0.001 | 15-OCT-22 |
| Phosphorus (P)-Total | | 0.014 | 0.014 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Potassium (K)-Total | | 0.688 | 0.668 | | mg/L | 2.9 | 25 | 15-OCT-22 |
| Rubidium (Rb)-Total | | 0.00221 | 0.00209 | | mg/L | 5.6 | 25 | 15-OCT-22 |
| Selenium (Se)-Total | | 0.000096 | 0.000100 | | mg/L | 3.7 | 25 | 15-OCT-22 |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5874979 | | | | | | | |
| WG3768000-4 | DUP | WG3768000-3 | | | | | | |
| Silicon (Si)-Total | | 1.48 | 1.49 | | mg/L | 0.4 | 25 | 15-OCT-22 |
| Silver (Ag)-Total | | 0.0000015 | 0.0000020 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Sodium (Na)-Total | | 2.48 | 2.51 | | mg/L | 1.2 | 25 | 15-OCT-22 |
| Strontium (Sr)-Total | | 0.0209 | 0.0207 | | mg/L | 1.0 | 25 | 15-OCT-22 |
| Sulfur (S)-Total | | 1.10 | 1.05 | | mg/L | 4.8 | 25 | 15-OCT-22 |
| Tellurium (Te)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Thallium (Tl)-Total | | 0.000005 | 0.000005 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Thorium (Th)-Total | | 0.000040 | 0.000046 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Tin (Sn)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Titanium (Ti)-Total | | 0.00360 | 0.00374 | | mg/L | 3.5 | 25 | 15-OCT-22 |
| Tungsten (W)-Total | | 0.000004 | 0.000004 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Uranium (U)-Total | | 0.0000845 | 0.0000885 | | mg/L | 4.3 | 25 | 15-OCT-22 |
| Vanadium (V)-Total | | 0.00058 | 0.00060 | | mg/L | 2.9 | 25 | 15-OCT-22 |
| Zinc (Zn)-Total | | 0.0014 | 0.0018 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| Zirconium (Zr)-Total | | 0.000188 | 0.000192 | RPD-NA | mg/L | N/A | 25 | 15-OCT-22 |
| WG3768000-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | 0.0012 | | mg/L | | 0.005 | 15-OCT-22 |
| Antimony (Sb)-Total | | | 0.000015 | | mg/L | | 0.0001 | 15-OCT-22 |
| Arsenic (As)-Total | | | <0.000005 | | mg/L | | 0.0001 | 15-OCT-22 |
| Barium (Ba)-Total | | | <0.00002 | | mg/L | | 0.0001 | 15-OCT-22 |
| Beryllium (Be)-Total | | | <0.000002 | | mg/L | | 0.0001 | 15-OCT-22 |
| Bismuth (Bi)-Total | | | <0.000005 | | mg/L | | 0.00005 | 15-OCT-22 |
| Boron (B)-Total | | | <0.002 | | mg/L | | 0.01 | 15-OCT-22 |
| Cadmium (Cd)-Total | | | <0.0000002 | | mg/L | | 0.000005 | 15-OCT-22 |
| Calcium (Ca)-Total | | | <0.005 | | mg/L | | 0.05 | 15-OCT-22 |
| Cesium (Cs)-Total | | | 0.0000004 | | mg/L | | 0.00001 | 15-OCT-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.0005 | 15-OCT-22 |
| Cobalt (Co)-Total | | | <0.000002 | | mg/L | | 0.0001 | 15-OCT-22 |
| Copper (Cu)-Total | | | <0.00005 | | mg/L | | 0.0005 | 15-OCT-22 |
| Iron (Fe)-Total | | | <0.001 | | mg/L | | 0.01 | 15-OCT-22 |
| Lead (Pb)-Total | | | <0.00002 | | mg/L | | 0.00005 | 15-OCT-22 |
| Lithium (Li)-Total | | | <0.0002 | | mg/L | | 0.001 | 15-OCT-22 |
| Magnesium (Mg)-Total | | | <0.0005 | | mg/L | | 0.005 | 15-OCT-22 |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|------------|-----------|-------|-----|---------|-----------|
| MET-T-MISA-MS-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5874979 | | | | | | | |
| WG3768000-1 MB | | | | | | | | |
| Manganese (Mn)-Total | | | <0.00002 | | mg/L | | 0.0005 | 15-OCT-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.00005 | 15-OCT-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.0005 | 15-OCT-22 |
| Phosphorus (P)-Total | | | 0.002 | | mg/L | | 0.05 | 15-OCT-22 |
| Potassium (K)-Total | | | <0.002 | | mg/L | | 0.05 | 15-OCT-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 15-OCT-22 |
| Selenium (Se)-Total | | | <0.000002 | | mg/L | | 0.00005 | 15-OCT-22 |
| Silicon (Si)-Total | | | 0.018 | | mg/L | | 0.1 | 15-OCT-22 |
| Silver (Ag)-Total | | | 0.0000005 | | mg/L | | 0.00005 | 15-OCT-22 |
| Sodium (Na)-Total | | | 0.005 | | mg/L | | 0.05 | 15-OCT-22 |
| Strontium (Sr)-Total | | | <0.00001 | | mg/L | | 0.001 | 15-OCT-22 |
| Sulfur (S)-Total | | | <0.05 | | mg/L | | 0.5 | 15-OCT-22 |
| Tellurium (Te)-Total | | | 0.000030 | | mg/L | | 0.0002 | 15-OCT-22 |
| Thallium (Tl)-Total | | | <0.000001 | | mg/L | | 0.00001 | 15-OCT-22 |
| Thorium (Th)-Total | | | <0.000002 | | mg/L | | 0.0001 | 15-OCT-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.0001 | 15-OCT-22 |
| Titanium (Ti)-Total | | | <0.00002 | | mg/L | | 0.0003 | 15-OCT-22 |
| Tungsten (W)-Total | | | <0.000002 | | mg/L | | 0.0001 | 15-OCT-22 |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 15-OCT-22 |
| Vanadium (V)-Total | | | <0.00002 | | mg/L | | 0.0005 | 15-OCT-22 |
| Zinc (Zn)-Total | | | <0.0002 | | mg/L | | 0.003 | 15-OCT-22 |
| Zirconium (Zr)-Total | | | <0.000004 | | mg/L | | 0.0002 | 15-OCT-22 |
| NH3-MISA-F-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5872756 | | | | | | | |
| WG3767287-3 DUP | | L2736113-1 | | | | | | |
| Ammonia, Total (as N) | | 0.004 | 0.002 | RPD-NA | mg/L | N/A | 20 | 11-OCT-22 |
| WG3767287-2 LCS | | | | | | | | |
| Ammonia, Total (as N) | | | 90.4 | | % | | 85-115 | 11-OCT-22 |
| WG3767287-1 MB | | | | | | | | |
| Ammonia, Total (as N) | | | <0.002 | | mg/L | | 0.005 | 11-OCT-22 |
| WG3767287-4 MS | | L2736113-2 | | | | | | |
| Ammonia, Total (as N) | | | 103.3 | | % | | 75-125 | 11-OCT-22 |
| NO2-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| NO2-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5871897 | | | | | | | |
| WG3767305-3 | DUP | L2736113-7 | | | | | | |
| Nitrite (as N) | | 0.014 | 0.014 | | mg/L | 1.7 | 20 | 09-OCT-22 |
| WG3767305-2 | LCS | | | | | | | |
| Nitrite (as N) | | | 99.7 | | % | | 90-110 | 09-OCT-22 |
| WG3767305-1 | MB | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 09-OCT-22 |
| WG3767305-4 | MS | L2736113-8 | | | | | | |
| Nitrite (as N) | | | 102.0 | | % | | 75-125 | 09-OCT-22 |
| Batch | R5872536 | | | | | | | |
| WG3767304-3 | DUP | L2736099-1 | | | | | | |
| Nitrite (as N) | | 0.540 | 0.530 | | mg/L | 1.8 | 20 | 11-OCT-22 |
| WG3767304-2 | LCS | | | | | | | |
| Nitrite (as N) | | | 104.7 | | % | | 90-110 | 11-OCT-22 |
| WG3767304-1 | MB | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 11-OCT-22 |
| NO3-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5871897 | | | | | | | |
| WG3767305-3 | DUP | L2736113-7 | | | | | | |
| Nitrate (as N) | | 0.122 | 0.124 | | mg/L | 0.4 | 20 | 09-OCT-22 |
| WG3767305-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 103.3 | | % | | 90-110 | 09-OCT-22 |
| WG3767305-1 | MB | | | | | | | |
| Nitrate (as N) | | | <0.002 | | mg/L | | 0.02 | 09-OCT-22 |
| WG3767305-4 | MS | L2736113-8 | | | | | | |
| Nitrate (as N) | | | 106.2 | | % | | 75-125 | 09-OCT-22 |
| Batch | R5872536 | | | | | | | |
| WG3767304-3 | DUP | L2736099-1 | | | | | | |
| Nitrate (as N) | | 8.40 | 8.44 | | mg/L | 0.5 | 20 | 11-OCT-22 |
| WG3767304-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 103.5 | | % | | 90-110 | 11-OCT-22 |
| WG3767304-1 | MB | | | | | | | |
| Nitrate (as N) | | | <0.002 | | mg/L | | 0.02 | 11-OCT-22 |
| OGG-TOT-WT | | Effluent | | | | | | |
| Batch | R5873696 | | | | | | | |
| WG3767803-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 97.4 | | % | | 50-150 | 13-OCT-22 |
| WG3767803-1 | MB | | | | | | | |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|------------------------|-----------------|--------|-----------|-------|------|---------|-----------|
| OGG-TOT-WT | | Effluent | | | | | | |
| Batch | R5873696 | | | | | | | |
| WG3767803-1 | MB | | | | | | | |
| | Oil and Grease, Total | | 0.2 | | mg/L | | 1 | 13-OCT-22 |
| PH-MISA-TB | | Effluent | | | | | | |
| Batch | R5872436 | | | | | | | |
| WG3767296-3 | DUP | L2736096-1 | | | | | | |
| | pH | 7.68 | 7.71 | J | pH | 0.03 | 0.2 | 11-OCT-22 |
| WG3767297-3 | DUP | L2736113-6 | | | | | | |
| | pH | 8.12 | 8.13 | J | pH | 0.01 | 0.2 | 11-OCT-22 |
| WG3767296-2 | LCS | | | | | | | |
| | pH | | 7.00 | | pH | | 6.9-7.1 | 11-OCT-22 |
| WG3767297-2 | LCS | | | | | | | |
| | pH | | 6.96 | | pH | | 6.9-7.1 | 11-OCT-22 |
| SO4-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5871897 | | | | | | | |
| WG3767305-3 | DUP | L2736113-7 | | | | | | |
| | Sulfate (SO4) | 44.3 | 44.7 | | mg/L | 0.9 | 20 | 09-OCT-22 |
| WG3767305-2 | LCS | | | | | | | |
| | Sulfate (SO4) | | 104.0 | | % | | 90-110 | 09-OCT-22 |
| WG3767305-1 | MB | | | | | | | |
| | Sulfate (SO4) | | <0.05 | | mg/L | | 0.3 | 09-OCT-22 |
| WG3767305-4 | MS | L2736113-8 | | | | | | |
| | Sulfate (SO4) | | 104.8 | | % | | 75-125 | 09-OCT-22 |
| Batch | R5872536 | | | | | | | |
| WG3767304-3 | DUP | L2736099-1 | | | | | | |
| | Sulfate (SO4) | 802 | 806 | | mg/L | 0.6 | 20 | 11-OCT-22 |
| WG3767304-2 | LCS | | | | | | | |
| | Sulfate (SO4) | | 103.8 | | % | | 90-110 | 11-OCT-22 |
| WG3767304-1 | MB | | | | | | | |
| | Sulfate (SO4) | | <0.05 | | mg/L | | 0.3 | 11-OCT-22 |
| TDS-MISA-TB | | Effluent | | | | | | |
| Batch | R5872021 | | | | | | | |
| WG3767292-3 | DUP | L2736113-17 | | | | | | |
| | Total Dissolved Solids | 126 | 118 | | mg/L | 6.3 | 20 | 09-OCT-22 |
| WG3767292-2 | LCS | | | | | | | |
| | Total Dissolved Solids | | 92.5 | | % | | 85-115 | 09-OCT-22 |
| WG3767292-1 | MB | | | | | | | |



Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-------------------------|---------------------------|--------|-----------|-------|-----|--------|-----------|
| TDS-MISA-TB | | Effluent | | | | | | |
| Batch | R5872021 | | | | | | | |
| WG3767292-1 MB | Total Dissolved Solids | | <2 | | mg/L | | 10 | 09-OCT-22 |
| Batch | R5872617 | | | | | | | |
| WG3767371-3 DUP | Total Dissolved Solids | L2736113-16 248 | 248 | | mg/L | 0.0 | 20 | 11-OCT-22 |
| WG3767371-2 LCS | Total Dissolved Solids | | 99.1 | | % | | 85-115 | 11-OCT-22 |
| WG3767371-1 MB | Total Dissolved Solids | | 4 | | mg/L | | 10 | 11-OCT-22 |
| Batch | R5872858 | | | | | | | |
| WG3767451-3 DUP | Total Dissolved Solids | L2736038-1 1880 | 1850 | | mg/L | 1.7 | 20 | 11-OCT-22 |
| WG3767451-2 LCS | Total Dissolved Solids | | 101.1 | | % | | 85-115 | 11-OCT-22 |
| WG3767451-1 MB | Total Dissolved Solids | | <2 | | mg/L | | 10 | 11-OCT-22 |
| TKN-WT | | Effluent | | | | | | |
| Batch | R5878630 | | | | | | | |
| WG3768698-3 DUP | Total Kjeldahl Nitrogen | L2736099-1 19.3 | 17.7 | | mg/L | 8.8 | 20 | 20-OCT-22 |
| WG3768702-3 DUP | Total Kjeldahl Nitrogen | L2736114-1 0.35 | 0.30 | | mg/L | 18 | 20 | 21-OCT-22 |
| WG3768698-2 LCS | Total Kjeldahl Nitrogen | | 110.4 | | % | | 75-125 | 20-OCT-22 |
| WG3768702-2 LCS | Total Kjeldahl Nitrogen | | 108.5 | | % | | 75-125 | 20-OCT-22 |
| WG3768698-1 MB | Total Kjeldahl Nitrogen | | <0.05 | | mg/L | | 0.18 | 20-OCT-22 |
| WG3768702-1 MB | Total Kjeldahl Nitrogen | | <0.05 | | mg/L | | 0.18 | 20-OCT-22 |
| WG3768698-4 MS | Total Kjeldahl Nitrogen | L2736099-1 | N/A | MS-B | % | | - | 20-OCT-22 |
| WG3768702-4 MS | Total Kjeldahl Nitrogen | L2736114-1 | 106.4 | | % | | 70-130 | 21-OCT-22 |
| TSS-MISA-TB | | Effluent | | | | | | |



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Workorder: L2736113

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|--------|--------------------|--------|-----------|-------|-----|--------|-----------|
| TSS-MISA-TB | | | | | | | | |
| Batch R5871980 | | | | | | | | |
| WG3767293-3 DUP | | L2736113-17 | | | | | | |
| Total Suspended Solids | | 1.5 | 1.0 | RPD-NA | mg/L | N/A | 20 | 09-OCT-22 |
| WG3767293-2 LCS | | | | | | | | |
| Total Suspended Solids | | | 100.2 | | % | | 85-115 | 09-OCT-22 |
| WG3767293-1 MB | | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 09-OCT-22 |
| Batch R5872560 | | | | | | | | |
| WG3767373-3 DUP | | L2736113-16 | | | | | | |
| Total Suspended Solids | | 3.0 | 2.5 | RPD-NA | mg/L | N/A | 20 | 11-OCT-22 |
| WG3767373-2 LCS | | | | | | | | |
| Total Suspended Solids | | | 94.8 | | % | | 85-115 | 11-OCT-22 |
| WG3767373-1 MB | | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 11-OCT-22 |
| Batch R5872796 | | | | | | | | |
| WG3767452-3 DUP | | L2736038-1 | | | | | | |
| Total Suspended Solids | | 2.5 | 1.5 | RPD-NA | mg/L | N/A | 20 | 11-OCT-22 |
| WG3767452-2 LCS | | | | | | | | |
| Total Suspended Solids | | | 93.8 | | % | | 85-115 | 11-OCT-22 |
| WG3767452-1 MB | | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 11-OCT-22 |

Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| BODF | BOD analyzed from frozen (preserved) sample. Hold time for unpreserved samples was exceeded, but freezing can extend hold time to at least 1 month, according to ISO 5667-3 (2018). |
| DLDS | Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity. |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

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Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Colour, True | | | | | | | |
| | 1 | 04-OCT-22 10:00 | 09-OCT-22 10:00 | 3 | 5 | days | EHTR |
| | 2 | 04-OCT-22 10:55 | 09-OCT-22 10:00 | 3 | 5 | days | EHTR |
| | 4 | 04-OCT-22 11:05 | 09-OCT-22 10:00 | 3 | 5 | days | EHTR |
| | 5 | 03-OCT-22 11:25 | 09-OCT-22 10:00 | 3 | 6 | days | EHTR |
| | 6 | 04-OCT-22 11:45 | 09-OCT-22 10:00 | 3 | 5 | days | EHTL |
| | 7 | 04-OCT-22 23:55 | 09-OCT-22 10:00 | 3 | 4 | days | EHTL |
| | 8 | 04-OCT-22 12:00 | 09-OCT-22 10:00 | 3 | 5 | days | EHTL |
| | 9 | 04-OCT-22 | 09-OCT-22 10:00 | 3 | 5 | days | EHTL |
| | 10 | 04-OCT-22 12:30 | 09-OCT-22 10:00 | 3 | 5 | days | EHTL |
| | 12 | 04-OCT-22 13:30 | 09-OCT-22 10:00 | 3 | 5 | days | EHTL |
| | 14 | 04-OCT-22 14:00 | 09-OCT-22 10:00 | 3 | 5 | days | EHTL |
| | 15 | 04-OCT-22 14:10 | 09-OCT-22 10:00 | 3 | 5 | days | EHTL |
| | 16 | 04-OCT-22 14:35 | 09-OCT-22 10:00 | 3 | 5 | days | EHTL |
| | 17 | 03-OCT-22 15:10 | 09-OCT-22 10:00 | 3 | 6 | days | EHTR |
| | 18 | 04-OCT-22 17:00 | 09-OCT-22 10:00 | 3 | 5 | days | EHTL |
| Conductivity (EC) | | | | | | | |
| | 1 | 04-OCT-22 10:00 | 09-OCT-22 10:00 | 4 | 5 | days | EHTL |
| | 2 | 04-OCT-22 10:55 | 09-OCT-22 10:00 | 4 | 5 | days | EHTL |
| | 4 | 04-OCT-22 11:05 | 09-OCT-22 10:00 | 4 | 5 | days | EHTL |
| | 5 | 03-OCT-22 11:25 | 09-OCT-22 10:00 | 4 | 6 | days | EHTR |
| | 6 | 04-OCT-22 11:45 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 8 | 04-OCT-22 12:00 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 9 | 04-OCT-22 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 10 | 04-OCT-22 12:30 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 12 | 04-OCT-22 13:30 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 14 | 04-OCT-22 14:00 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 15 | 04-OCT-22 14:10 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 16 | 04-OCT-22 14:35 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 17 | 03-OCT-22 15:10 | 09-OCT-22 10:00 | 4 | 6 | days | EHTL |
| | 18 | 04-OCT-22 17:00 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| Turbidity | | | | | | | |
| | 1 | 04-OCT-22 10:00 | 11-OCT-22 14:00 | 3 | 7 | days | EHTR |
| | 2 | 04-OCT-22 10:55 | 11-OCT-22 14:00 | 3 | 7 | days | EHTR |
| | 4 | 04-OCT-22 11:05 | 11-OCT-22 14:00 | 3 | 7 | days | EHTR |
| | 5 | 03-OCT-22 11:25 | 11-OCT-22 14:00 | 3 | 8 | days | EHTR |
| | 6 | 04-OCT-22 11:45 | 11-OCT-22 14:00 | 3 | 7 | days | EHTL |
| | 7 | 04-OCT-22 23:55 | 11-OCT-22 15:50 | 3 | 7 | days | EHTL |
| | 8 | 04-OCT-22 12:00 | 11-OCT-22 15:50 | 3 | 7 | days | EHTL |
| | 9 | 04-OCT-22 | 11-OCT-22 15:50 | 3 | 7 | days | EHTL |
| | 10 | 04-OCT-22 12:30 | 11-OCT-22 15:50 | 3 | 7 | days | EHTL |
| | 12 | 04-OCT-22 13:30 | 11-OCT-22 15:50 | 3 | 7 | days | EHTL |
| | 14 | 04-OCT-22 14:00 | 11-OCT-22 15:50 | 3 | 7 | days | EHTL |
| | 15 | 04-OCT-22 14:10 | 11-OCT-22 15:50 | 3 | 7 | days | EHTL |
| | 16 | 04-OCT-22 14:35 | 11-OCT-22 15:50 | 3 | 7 | days | EHTL |
| | 17 | 03-OCT-22 15:10 | 11-OCT-22 15:50 | 3 | 8 | days | EHTR |
| | 18 | 04-OCT-22 17:00 | 11-OCT-22 15:50 | 3 | 7 | days | EHTL |
| pH | | | | | | | |
| | 1 | 04-OCT-22 10:00 | 09-OCT-22 10:00 | 4 | 5 | days | EHTL |
| | 2 | 04-OCT-22 10:55 | 09-OCT-22 10:00 | 4 | 5 | days | EHTL |
| | 4 | 04-OCT-22 11:05 | 09-OCT-22 10:00 | 4 | 5 | days | EHTL |
| | 5 | 03-OCT-22 11:25 | 09-OCT-22 10:00 | 4 | 6 | days | EHTR |
| | 6 | 04-OCT-22 11:45 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |

Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|--|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| pH | | | | | | | |
| | 8 | 04-OCT-22 12:00 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 9 | 04-OCT-22 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 10 | 04-OCT-22 12:30 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 12 | 04-OCT-22 13:30 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 14 | 04-OCT-22 14:00 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 15 | 04-OCT-22 14:10 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 16 | 04-OCT-22 14:35 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| | 17 | 03-OCT-22 15:10 | 09-OCT-22 10:00 | 4 | 6 | days | EHTL |
| | 18 | 04-OCT-22 17:00 | 09-OCT-22 10:00 | 4 | 5 | days | EHT |
| Leachable Anions & Nutrients | | | | | | | |
| Nitrate in Water by IC | | | | | | | |
| | 1 | 04-OCT-22 10:00 | 11-OCT-22 14:24 | 5 | 7 | days | EHT |
| | 2 | 04-OCT-22 10:55 | 11-OCT-22 14:24 | 5 | 7 | days | EHT |
| | 4 | 04-OCT-22 11:05 | 11-OCT-22 14:24 | 5 | 7 | days | EHT |
| | 5 | 03-OCT-22 11:25 | 09-OCT-22 10:00 | 5 | 6 | days | EHTL |
| | 6 | 04-OCT-22 11:45 | 11-OCT-22 14:24 | 5 | 7 | days | EHT |
| | 17 | 03-OCT-22 15:10 | 09-OCT-22 10:00 | 5 | 6 | days | EHT |
| Nitrite in Water by IC | | | | | | | |
| | 1 | 04-OCT-22 10:00 | 11-OCT-22 14:24 | 5 | 7 | days | EHT |
| | 2 | 04-OCT-22 10:55 | 11-OCT-22 14:24 | 5 | 7 | days | EHT |
| | 4 | 04-OCT-22 11:05 | 11-OCT-22 14:24 | 5 | 7 | days | EHT |
| | 5 | 03-OCT-22 11:25 | 09-OCT-22 10:00 | 5 | 6 | days | EHTL |
| | 6 | 04-OCT-22 11:45 | 11-OCT-22 14:24 | 5 | 7 | days | EHT |
| | 17 | 03-OCT-22 15:10 | 09-OCT-22 10:00 | 5 | 6 | days | EHT |
| Anions and Nutrients | | | | | | | |
| Filtr./Pres. for Carbons Subcontract | | | | | | | |
| | 10 | 04-OCT-22 12:30 | 09-OCT-22 15:00 | 3 | 5 | days | EHTL |
| | 18 | 04-OCT-22 17:00 | 09-OCT-22 15:00 | 3 | 5 | days | EHTL |
| Cyanides | | | | | | | |
| Free Cyanide by Continuous Flow Analyzer | | | | | | | |
| | 1 | 04-OCT-22 10:00 | 13-OCT-22 00:00 | 7 | 9 | days | EHT |
| | 2 | 04-OCT-22 10:55 | 13-OCT-22 00:00 | 7 | 9 | days | EHT |
| | 4 | 04-OCT-22 11:05 | 13-OCT-22 00:00 | 7 | 9 | days | EHT |
| | 5 | 03-OCT-22 11:25 | 13-OCT-22 00:00 | 7 | 10 | days | EHT |
| | 6 | 04-OCT-22 11:45 | 13-OCT-22 00:00 | 7 | 9 | days | EHT |
| | 7 | 04-OCT-22 23:55 | 13-OCT-22 00:00 | 7 | 8 | days | EHT |
| | 8 | 04-OCT-22 12:00 | 13-OCT-22 00:00 | 7 | 9 | days | EHT |
| | 9 | 04-OCT-22 | 13-OCT-22 00:00 | 7 | 9 | days | EHT |
| | 10 | 04-OCT-22 12:30 | 13-OCT-22 00:00 | 7 | 8 | days | EHT |
| | 12 | 04-OCT-22 13:30 | 13-OCT-22 00:00 | 7 | 8 | days | EHT |
| | 14 | 04-OCT-22 14:00 | 13-OCT-22 00:00 | 7 | 8 | days | EHT |
| | 15 | 04-OCT-22 14:10 | 13-OCT-22 00:00 | 7 | 8 | days | EHT |
| | 16 | 04-OCT-22 14:35 | 13-OCT-22 00:00 | 7 | 8 | days | EHT |
| | 17 | 03-OCT-22 15:10 | 13-OCT-22 00:00 | 7 | 9 | days | EHT |
| | 18 | 04-OCT-22 17:00 | 13-OCT-22 00:00 | 7 | 8 | days | EHT |
| Metals | | | | | | | |
| Dissolved Orthophosphate | | | | | | | |
| | 5 | 03-OCT-22 11:25 | 11-OCT-22 08:45 | 7 | 8 | days | EHT |
| | 17 | 03-OCT-22 15:10 | 11-OCT-22 08:45 | 7 | 8 | days | EHT |
| Aggregate Organics | | | | | | | |

Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

Page 21 of 21

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|---------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand (BOD) | | | | | | | |
| | 1 | 04-OCT-22 10:00 | 09-OCT-22 14:37 | 4 | 5 | days | EHTL |
| | 2 | 04-OCT-22 10:55 | 09-OCT-22 14:37 | 4 | 5 | days | EHTL |
| | 4 | 04-OCT-22 11:05 | 09-OCT-22 14:37 | 4 | 5 | days | EHTL |
| | 5 | 03-OCT-22 11:25 | 09-OCT-22 14:37 | 4 | 6 | days | EHTR |
| | 6 | 04-OCT-22 11:45 | 09-OCT-22 14:37 | 4 | 5 | days | EHT |
| | 7 | 04-OCT-22 23:55 | 09-OCT-22 14:37 | 4 | 5 | days | EHT |
| | 8 | 04-OCT-22 12:00 | 09-OCT-22 14:37 | 4 | 5 | days | EHT |
| | 9 | 04-OCT-22 | 09-OCT-22 14:37 | 4 | 5 | days | EHT |
| | 10 | 04-OCT-22 12:30 | 09-OCT-22 14:37 | 4 | 5 | days | EHT |
| | 12 | 04-OCT-22 13:30 | 09-OCT-22 14:37 | 4 | 5 | days | EHT |
| | 14 | 04-OCT-22 14:00 | 09-OCT-22 14:37 | 4 | 5 | days | EHT |
| | 15 | 04-OCT-22 14:10 | 09-OCT-22 14:37 | 4 | 5 | days | EHT |
| | 16 | 04-OCT-22 14:35 | 09-OCT-22 14:37 | 4 | 5 | days | EHT |
| | 17 | 03-OCT-22 15:10 | 09-OCT-22 14:37 | 4 | 6 | days | EHTL |
| | 18 | 04-OCT-22 17:00 | 09-OCT-22 14:37 | 4 | 5 | days | EHT |
| Carbonaceous BOD | | | | | | | |
| | 10 | 04-OCT-22 12:30 | 13-OCT-22 16:40 | 4 | 9 | days | EHT |
| | 18 | 04-OCT-22 17:00 | 13-OCT-22 16:40 | 4 | 9 | days | EHT |

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2736113 were received on 07-OCT-22 11:15.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



CHAIN OF CUSTODY RECORD - ALS-448403909

L2736113

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 10/6/2022 9:23:00 AM COC Number: ALS-448403909 | | | | | | Containers Filtered Preservatives | | SW Kit | Pa-226 Bottle | | | | | | | | | Number of Containers | Comments |
|---|-------------------------------|---------------------|-----------------|------------------|--------|--|---------------|--------|---------------|--|--|--|--|----|--|--|--|----------------------|----------|
| | | | | | | N | N | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | | | |
| 1 SW16_SW_20221004 | 8.5 | 5.77 | 15.29 | 10/04/2022 10:00 | SW | X | | | | | | | | 11 | | | | | |
| 2 SW20_SW_20221004 | 1.35 | 7.64 | 13.36 | 10/04/2022 10:55 | SW | X | | | | | | | | 12 | | | | | |
| 3 SW20_SW_20221004 | 1.35 | 7.64 | 13.36 | 10/04/2022 10:55 | SW | | X | | | | | | | 12 | | | | | |
| 4 SW17_SW_20221004 | 6.78 | 5.48 | 15.63 | 10/04/2022 11:05 | SW | X | | | | | | | | 11 | | | | | |
| 5 SW10_SW_20221004 | 5.57 | 7.86 | 13.21 | 10/04/2022 11:25 | SW | X | | | | | | | | 11 | | | | | |
| 6 SW28A_SW_20221004 | 7.32 | 8.01 | 12.81 | 10/04/2022 11:45 | SW | X | | | | | | | | 11 | | | | | |

| | | | | | | |
|------------------|--|------------------------|-----------------------------|--|-------------|--|
| Signature | | Date/Time | Shipping Details | | ATTN | Special Instructions: |
| Shipped by | | 10/6/2022 9:23:00 AM | Method of Shipment: Courier | | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | | NP3 Oct 7, 22 11:15 AM | On Ice: yes / no | | | |
| | | | Shipped: Air/Ground | | | |
| | | | Lab Name: ALS Thunder Bay | | | |
| | | | Lab Phone: | | | |

Tem: 7.7



10722412 0000

CHAIN OF CUSTODY RECORD - ALS-448403909

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 10/6/2022 9:23:00 AM COC Number: ALS-448403909 | | | | | | Containers SW Kit Ra-226 Bottle | | | | | | | | | | |
|---|-------------------------------|---------------------|-----------------|------------------|--------|--|---------------|--|--|--|--|--|--|--|----------------------|----------|
| | | | | | | Filtered N N | | | | | | | | | | |
| | | | | | | Preservatives | | | | | | | | | | |
| | | | | | | NG-SW-P-TB RA226-MMER-BE | | | | | | | | | | |
| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | Number of Containers | Comments |
| 7 SW15_SW_20221004 | 7.27 | 6.87 | 16.06 | 10/04/2022 11:55 | SW | X | | | | | | | | | 11 | |
| 8 FB_SW_20221004 | | | | 10/04/2022 12:00 | SW | X | | | | | | | | | 11 | |
| 9 SW06_SW_20221004 | | | | 10/04/2022 12:00 | SW | X | | | | | | | | | 11 | |
| 10 SW24_SW_20221004 | 3.9 | 6.59 | 15.17 | 10/04/2022 12:30 | SW | X | | | | | | | | | 12 | |
| 11 SW24_SW_20221004 | 3.9 | 6.59 | 15.17 | 10/04/2022 12:30 | SW | | X | | | | | | | | 12 | |
| 12 SW22A_SW_20221004 | 2.03 | 7.64 | 13.66 | 10/04/2022 13:30 | SW | X | | | | | | | | | 12 | |

| | | | | | | | | | |
|--|--|---|--|--|--|-------------|--|--|--|
| Signature Shipped by Received by <i>NP3</i> | | Date/Time 10/6/2022 9:23:00 AM <i>Oct 7, 22 11:15 AM</i> | | Shipping Details Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | ATTN | | Special Instructions: Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com | |
|--|--|---|--|--|--|-------------|--|--|--|

Tem - 7-7



10728412 0050

CHAIN OF CUSTODY RECORD - ALS-448403909

| | | | | | | | | | | | | | | | | | | | |
|--|--------------------------------------|----------------------------|------------------------|----------------------|---------------|--|----------------|--------|---------------|--|--|--|--|--|--|--|----|----------------------|----------|
| Project Name: Rainy River Location: Chapple Project Number: Project Manager: | | | | | | Containers Filtered | | SW Kit | Ra-226 Bottle | | | | | | | | | Number of Containers | Comments |
| PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 10/6/2022 9:23:00 AM COC Number: ALS-448403909 | | | | | | Preservatives | | N | N | | | | | | | | | | |
| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MIMER-BE | | | | | | | | | | | | |
| 13 SW22A_SW_20221004 | 2.03 | 7.64 | 13.66 | 10/04/2022 13:30 | SW | | X | | | | | | | | | | 12 | | |
| 14 SW03_SW_20221004 | 3.86 | 6.92 | 14.98 | 10/04/2022 14:00 | SW | X | | | | | | | | | | | 11 | | |
| 15 SW21A_SW_20221004 | 5.35 | 7.85 | 15.97 | 10/04/2022 14:10 | SW | X | | | | | | | | | | | 11 | | |
| 16 SW27_SW_20221004 | 3.02 | 7.71 | 14.09 | 10/04/2022 14:35 | SW | X | | | | | | | | | | | 11 | | |
| 17 SW02_SW_20221004 | 5.23 | 7.75 | 13.76 | 10/04/2022 15:10 | SW | X | | | | | | | | | | | 11 | | |
| 18 SW23_SW_20221004 | 4.15 | 6.8 | 15.11 | 10/04/2022 17:00 | SW | X | | | | | | | | | | | 12 | | |

| | | | | |
|------------------|------------------------|--|-------------|--|
| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
| Shipped by | 10/6/2022 9:23:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | MP3 Oct 7, 22 11:15 AM | Lab Name: ALS Thunder Bay Lab Phone: | | |

T.EM. = 7.7



10726412 COCO

CHAIN OF CUSTODY RECORD - ALS-448403909

| | | | | | | | | | | | | | | | |
|---|------------------|--------------------------------------|----------------------------|------------------------|----------------------|--|---|--|--|--|--|--|--|--|-----------------|
| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 10/6/2022 9:23:00 AM COC Number: ALS-448403909 | | | | | | Containers SW Kit Ra-226 Bottle | | | | | | | | | |
| | | | | | | Filtered N N | | | | | | | | | |
| | | | | | | Preservatives | | | | | | | | | |
| | | | | | | NG-SW-P-TB RA226-MMER-BE | | | | | | | | | |
| | | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | | | | | | | | | |
| 19 | SW23_SW_20221004 | 4.15 | 6.8 | 15.11 | 10/04/2022 17:00 | SW | X | | | | | | | | 12 |
| | | | | | | | | | | | | | | | Comments |

Drinking Water (DW) Samples (client use)

Are samples taken from a Regulated DW System? Yes No

Are samples for human consumption / use? Yes No

Samples from a Regulated DW System require an Authorized DW COC form

Sample Receipt Details (ALS use only)

Cooling Method: None Ice Ice Packs Frozen Cooling Initiated

Submission Comments identified on Sample Receipt Notification: Yes No

Cooler Custody Seals Intact: Yes NA Sample Custody Seals Intact: Yes NA

Initial Cooler Temperatures °C

Final Cooler Temperatures °C

| | | | | |
|------------------|----------------------|--|-------------|--|
| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
| Shipped by | 10/6/2022 9:23:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | | Lab Name: ALS Thunder Bay Lab Phone: | | |

NP3 - Oct 7, 22 11:15 AM

Tem - 7.7



10726112 COFC

CHAIN OF CUSTODY RECORD - ALS-448403909

| Signature | Data/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|----------------------|---|------|--|
| Shipped by | 10/6/2022 9:23:00 AM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | | Lab Name: ALS Thunder Bay Lab Phone: | | |

MP3 Oct 7, 2022 11:15 AM

TEM 7.7



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 16-NOV-22
Report Date: 21-DEC-22 10:11 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2740657
Project P.O. #: 4500062842
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:

<original signed by>

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2740657-1 SW26_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 10:25 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.67 | | 0 | mg/L | | 17-NOV-22 | R5893338 |
| pH, Client Supplied | 6.7 | | 0.10 | pH | | 17-NOV-22 | R5893338 |
| Temperature, Client Supplied | 2.1 | | 0 | Degree C | | 17-NOV-22 | R5893338 |
| Physical Tests | | | | | | | |
| Color, True | 71.3 | | 2.0 | CU | | 18-NOV-22 | R5894556 |
| Conductivity (EC) | 279 | | 1.0 | uS/cm | | 18-NOV-22 | R5894583 |
| Hardness (as CaCO3) | 148 | | 0.50 | | | 17-NOV-22 | |
| pH | 7.92 | | 0.10 | pH | | 18-NOV-22 | R5894583 |
| Total Suspended Solids | 6.0 | | 3.0 | mg/L | | 17-NOV-22 | R5894163 |
| Total Dissolved Solids | 194 | | 20 | mg/L | | 17-NOV-22 | R5894236 |
| Turbidity | 3.95 | | 0.10 | NTU | | 18-NOV-22 | R5894199 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.6 | <DL | 2.0 | mg/L | | 19-NOV-22 | R5895821 |
| Alkalinity, Total (as CaCO3) | 131 | | 2.0 | mg/L | | 18-NOV-22 | R5894583 |
| Ammonia, Total (as N) | 0.010 | <T | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 22-NOV-22 | |
| Chloride (Cl) | 8.54 | | 0.10 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Fluoride (F) | 0.041 | | 0.020 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Nitrate (as N) | 0.016 | <DL | 0.020 | mg/L | | 19-NOV-22 | R5895058 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 19-NOV-22 | R5895058 |
| Total Kjeldahl Nitrogen | 1.00 | | 0.050 | mg/L | 18-NOV-22 | 22-NOV-22 | R5897126 |
| Orthophosphate-Dissolved (as P) | 0.0041 | | 0.0010 | mg/L | 18-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 11.4 | | 0.30 | mg/L | | 19-NOV-22 | R5895058 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Total | 0.0010 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Free | 0.0010 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 19.5 | | 0.50 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895376 |
| Total Organic Carbon | 20.3 | | 0.50 | mg/L | | 24-NOV-22 | R5897641 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.465 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | 0.000070 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.00100 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0240 | | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | 0.000022 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.012 | <T | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000164 | <T | 0.0000050 | mg/L | | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 35.0 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.0000796 | | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00126 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-1 SW26_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 10:25 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Cobalt (Co)-Total | 0.000430 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | 0.00210 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.887 | | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.00040 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0034 | <T | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 14.3 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.104 | | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | 0.000010 | <T | 0.0000050 | mg/L | | 21-NOV-22 | R5895036 |
| Molybdenum (Mo)-Total | 0.000580 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00178 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | 0.042 | <DL | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 1.68 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00233 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000160 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 4.37 | | 0.10 | mg/L | | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | 0.0000015 | <DL | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 3.38 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.0828 | | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 4.25 | | 0.50 | mg/L | | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | 0.000030 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | 0.000010 | <T | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | 0.000070 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | 0.00008 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.0148 | | 0.00030 | mg/L | | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.00108 | <T | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00172 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0202 | | 0.0030 | mg/L | | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.000384 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5896979 |
| Aluminum (Al)-Dissolved | 0.0070 | <T | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Antimony (Sb)-Dissolved | 0.000070 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Arsenic (As)-Dissolved | 0.000790 | <T | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Barium (Ba)-Dissolved | 0.0212 | | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Boron (B)-Dissolved | 0.012 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Cadmium (Cd)-Dissolved | 0.0000026 | <DL | 0.0000050 | mg/L | | 24-NOV-22 | R5897131 |
| Calcium (Ca)-Dissolved | 36.6 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2740657-1 SW26_SW_20221108 Sampled By: Client on 11-NOV-22 @ 10:25 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Chromium (Cr)-Dissolved | 0.00014 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Cobalt (Co)-Dissolved | 0.000054 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Copper (Cu)-Dissolved | 0.00135 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Iron (Fe)-Dissolved | 0.074 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Lithium (Li)-Dissolved | 0.0040 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Magnesium (Mg)-Dissolved | 13.7 | | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Manganese (Mn)-Dissolved | 0.00054 | | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 22-NOV-22 | R5895577 |
| Molybdenum (Mo)-Dissolved | 0.000550 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Nickel (Ni)-Dissolved | 0.00102 | <T | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Phosphorus (P)-Dissolved | 0.004 | <DL | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Potassium (K)-Dissolved | 1.60 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Rubidium (Rb)-Dissolved | 0.00121 | | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Selenium (Se)-Dissolved | 0.000152 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Silicon (Si)-Dissolved | 2.22 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Sodium (Na)-Dissolved | 3.32 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Strontium (Sr)-Dissolved | 0.0805 | | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Sulfur (S)-Dissolved | 4.25 | | 0.50 | mg/L | | 24-NOV-22 | R5897131 |
| Tellurium (Te)-Dissolved | 0.000005 | <DL | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Thorium (Th)-Dissolved | 0.000020 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Titanium (Ti)-Dissolved | 0.00082 | | 0.00030 | mg/L | | 24-NOV-22 | R5897131 |
| Tungsten (W)-Dissolved | 0.000002 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Uranium (U)-Dissolved | 0.000864 | <T | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Vanadium (V)-Dissolved | 0.00034 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Zinc (Zn)-Dissolved | 0.0060 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Zirconium (Zr)-Dissolved | 0.000252 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | 3.5 | | 2.0 | mg/L | | 18-NOV-22 | R5896456 |
| Chemical Oxygen Demand | 72 | | 10 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895176 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 21-NOV-22 | 21-NOV-22 | R5895976 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740657-2 SW25_SW_20221108 Sampled By: Client on 11-NOV-22 @ 10:50 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 14.08 | | 0 | mg/L | | 17-NOV-22 | R5893338 |
| pH, Client Supplied | 6.71 | | 0.10 | pH | | 17-NOV-22 | R5893338 |
| Temperature, Client Supplied | .26 | | 0 | Degree C | | 17-NOV-22 | R5893338 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L2740657-2 SW25_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 10:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 80.0 | | 2.0 | CU | | 18-NOV-22 | R5894556 |
| Conductivity (EC) | 261 | | 1.0 | uS/cm | | 18-NOV-22 | R5894583 |
| Hardness (as CaCO3) | 136 | | 0.50 | | | 17-NOV-22 | |
| pH | 7.80 | | 0.10 | pH | | 18-NOV-22 | R5894583 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 17-NOV-22 | R5894163 |
| Total Dissolved Solids | 174 | | 20 | mg/L | | 17-NOV-22 | R5894236 |
| Turbidity | 2.90 | | 0.10 | NTU | | 18-NOV-22 | R5894199 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.0 | <DL | 2.0 | mg/L | | 19-NOV-22 | R5895821 |
| Alkalinity, Total (as CaCO3) | 119 | | 2.0 | mg/L | | 18-NOV-22 | R5894583 |
| Ammonia, Total (as N) | 0.024 | <T | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 22-NOV-22 | |
| Chloride (Cl) | 9.40 | | 0.10 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Fluoride (F) | 0.059 | | 0.020 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Nitrate (as N) | 0.032 | <T | 0.020 | mg/L | | 19-NOV-22 | R5895058 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 19-NOV-22 | R5895058 |
| Total Kjeldahl Nitrogen | 0.832 | | 0.050 | mg/L | 18-NOV-22 | 22-NOV-22 | R5897126 |
| Orthophosphate-Dissolved (as P) | 0.0050 | | 0.0010 | mg/L | 18-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 10.0 | | 0.30 | mg/L | | 19-NOV-22 | R5895058 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Free | 0.0010 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 21.5 | | 0.50 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895376 |
| Total Organic Carbon | 21.8 | | 0.50 | mg/L | | 24-NOV-22 | R5897641 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0768 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | 0.000060 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.000725 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0150 | | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.010 | <T | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000062 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 32.0 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.0000130 | | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00054 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.000128 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | 0.00105 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.289 | | 0.010 | mg/L | | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-2 SW25_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 10:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Lead (Pb)-Total | 0.00012 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0024 | <T | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 12.2 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0174 | | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 21-NOV-22 | R5895036 |
| Molybdenum (Mo)-Total | 0.000530 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00110 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | 0.016 | <DL | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 1.56 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00182 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000140 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 3.28 | | 0.10 | mg/L | | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.0000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 3.52 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.0749 | | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 3.75 | | 0.50 | mg/L | | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | 0.000020 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | 0.000002 | <DL | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | 0.000020 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00244 | | 0.00030 | mg/L | | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.000911 | <T | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00050 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0088 | <T | 0.0030 | mg/L | | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.000196 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5896979 |
| Aluminum (Al)-Dissolved | 0.0092 | <T | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Antimony (Sb)-Dissolved | 0.000070 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Arsenic (As)-Dissolved | 0.000720 | <T | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Barium (Ba)-Dissolved | 0.0137 | | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Boron (B)-Dissolved | 0.012 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Cadmium (Cd)-Dissolved | 0.0000024 | <DL | 0.0000050 | mg/L | | 24-NOV-22 | R5897131 |
| Calcium (Ca)-Dissolved | 34.2 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Cesium (Cs)-Dissolved | 0.0000022 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Chromium (Cr)-Dissolved | 0.00028 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Cobalt (Co)-Dissolved | 0.000082 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Copper (Cu)-Dissolved | 0.00090 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-2 SW25_SW_20221108 Sampled By: Client on 11-NOV-22 @ 10:50 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Iron (Fe)-Dissolved | 0.126 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Lithium (Li)-Dissolved | 0.0030 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Magnesium (Mg)-Dissolved | 12.3 | | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Manganese (Mn)-Dissolved | 0.00414 | | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 22-NOV-22 | R5895577 |
| Molybdenum (Mo)-Dissolved | 0.000520 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Nickel (Ni)-Dissolved | 0.00094 | <T | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Phosphorus (P)-Dissolved | 0.008 | <DL | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Potassium (K)-Dissolved | 1.53 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Rubidium (Rb)-Dissolved | 0.00147 | | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Selenium (Se)-Dissolved | 0.000166 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Silicon (Si)-Dissolved | 2.96 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Silver (Ag)-Dissolved | 0.0000005 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Sodium (Na)-Dissolved | 3.33 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Strontium (Sr)-Dissolved | 0.0722 | | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Sulfur (S)-Dissolved | 3.80 | | 0.50 | mg/L | | 24-NOV-22 | R5897131 |
| Tellurium (Te)-Dissolved | 0.000005 | <DL | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Thorium (Th)-Dissolved | 0.000020 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Titanium (Ti)-Dissolved | 0.00088 | | 0.00030 | mg/L | | 24-NOV-22 | R5897131 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Uranium (U)-Dissolved | 0.000893 | <T | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Vanadium (V)-Dissolved | 0.00034 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Zinc (Zn)-Dissolved | 0.0070 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Zirconium (Zr)-Dissolved | 0.000208 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 18-NOV-22 | R5896456 |
| Chemical Oxygen Demand | 64 | | 10 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895176 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 21-NOV-22 | 21-NOV-22 | R5895976 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740657-3 FB_SW_20221108 Sampled By: Client on 11-NOV-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 18-NOV-22 | R5894556 |
| Conductivity (EC) | 0.8 | <DL | 1.0 | uS/cm | | 18-NOV-22 | R5894583 |
| Hardness (as CaCO3) | <0.50 | | 0.50 | | | 17-NOV-22 | |
| pH | 5.17 | | 0.10 | pH | | 18-NOV-22 | R5894583 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 17-NOV-22 | R5894163 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 17-NOV-22 | R5894236 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-3 FB_SW_20221108 Sampled By: Client on 11-NOV-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Turbidity | <0.10 | | 0.10 | NTU | | 18-NOV-22 | R5894199 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.0 | <DL | 2.0 | mg/L | | 19-NOV-22 | R5895821 |
| Alkalinity, Total (as CaCO3) | 0.4 | <DL | 2.0 | mg/L | | 18-NOV-22 | R5894583 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 19-NOV-22 | R5895058 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 19-NOV-22 | R5895058 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 18-NOV-22 | 22-NOV-22 | R5897126 |
| Orthophosphate-Dissolved (as P) | 0.0011 | | 0.0010 | mg/L | 18-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 19-NOV-22 | R5895058 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 16-NOV-22 | 21-NOV-22 | R5895376 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 24-NOV-22 | R5897641 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | <0.0002 | <W | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.000005 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | <0.00002 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | <0.000002 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.004 | <DL | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000016 | <DL | 0.0000050 | mg/L | | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 0.010 | <DL | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | <0.0000002 | <W | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00030 | <DL | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | <0.000002 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | <0.00005 | <W | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.001 | <DL | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | <0.00002 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | <0.0002 | <W | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | <0.0005 | <W | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.00002 | <DL | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 21-NOV-22 | R5895036 |
| Molybdenum (Mo)-Total | <0.000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00006 | <DL | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | <0.002 | <W | 0.050 | mg/L | | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-3 FB_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Potassium (K)-Total | <0.002 | <W | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | <0.000002 | <W | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | <0.000002 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 0.038 | <DL | 0.10 | mg/L | | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.0000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 0.025 | <DL | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | <0.05 | <W | 0.50 | mg/L | | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | 0.000025 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | <0.000001 | <W | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | <0.000002 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | 0.00009 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00002 | <DL | 0.00030 | mg/L | | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | <0.000002 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | <0.00002 | <W | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0002 | <DL | 0.0030 | mg/L | | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | <0.000004 | <W | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 21-NOV-22 | R5894897 |
| Aluminum (Al)-Dissolved | <0.0002 | <W | 0.0050 | mg/L | | 21-NOV-22 | R5895397 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Arsenic (As)-Dissolved | <0.000005 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Barium (Ba)-Dissolved | <0.00002 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 21-NOV-22 | R5895397 |
| Boron (B)-Dissolved | 0.004 | <DL | 0.010 | mg/L | | 21-NOV-22 | R5895397 |
| Cadmium (Cd)-Dissolved | 0.0000008 | <DL | 0.0000050 | mg/L | | 21-NOV-22 | R5895397 |
| Calcium (Ca)-Dissolved | 0.005 | <DL | 0.050 | mg/L | | 21-NOV-22 | R5895397 |
| Cesium (Cs)-Dissolved | <0.0000002 | <W | 0.000010 | mg/L | | 21-NOV-22 | R5895397 |
| Chromium (Cr)-Dissolved | 0.00014 | <DL | 0.00050 | mg/L | | 21-NOV-22 | R5895397 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Copper (Cu)-Dissolved | <0.00005 | <W | 0.00020 | mg/L | | 21-NOV-22 | R5895397 |
| Iron (Fe)-Dissolved | <0.001 | <W | 0.010 | mg/L | | 21-NOV-22 | R5895397 |
| Lead (Pb)-Dissolved | <0.00002 | <W | 0.000050 | mg/L | | 21-NOV-22 | R5895397 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.0010 | mg/L | | 21-NOV-22 | R5895397 |
| Magnesium (Mg)-Dissolved | <0.0005 | <W | 0.0050 | mg/L | | 21-NOV-22 | R5895397 |
| Manganese (Mn)-Dissolved | 0.00002 | <DL | 0.00050 | mg/L | | 21-NOV-22 | R5895397 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 22-NOV-22 | R5895577 |
| Molybdenum (Mo)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 21-NOV-22 | R5895397 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 21-NOV-22 | R5895397 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|----------|-------|-----------|-----------|----------|
| L2740657-3 FB_SW_20221108 Sampled By: Client on 11-NOV-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Phosphorus (P)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 21-NOV-22 | R5895397 |
| Potassium (K)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 21-NOV-22 | R5895397 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 21-NOV-22 | R5895397 |
| Selenium (Se)-Dissolved | <0.000002 | <W | 0.000050 | mg/L | | 21-NOV-22 | R5895397 |
| Silicon (Si)-Dissolved | 0.038 | <DL | 0.050 | mg/L | | 21-NOV-22 | R5895397 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.000050 | mg/L | | 21-NOV-22 | R5895397 |
| Sodium (Na)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 21-NOV-22 | R5895397 |
| Strontium (Sr)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 21-NOV-22 | R5895397 |
| Sulfur (S)-Dissolved | <0.05 | <W | 0.50 | mg/L | | 21-NOV-22 | R5895397 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 21-NOV-22 | R5895397 |
| Thallium (Tl)-Dissolved | <0.000001 | <W | 0.000010 | mg/L | | 21-NOV-22 | R5895397 |
| Thorium (Th)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Tin (Sn)-Dissolved | 0.00007 | <DL | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.00030 | mg/L | | 21-NOV-22 | R5895397 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 21-NOV-22 | R5895397 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 21-NOV-22 | R5895397 |
| Zinc (Zn)-Dissolved | <0.0002 | <W | 0.0010 | mg/L | | 21-NOV-22 | R5895397 |
| Zirconium (Zr)-Dissolved | <0.000004 | <W | 0.00020 | mg/L | | 21-NOV-22 | R5895397 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 18-NOV-22 | R5896456 |
| Chemical Oxygen Demand | 11 | | 10 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895176 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 21-NOV-22 | 21-NOV-22 | R5895976 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740657-4 SW06_SW_20221108 Sampled By: Client on 11-NOV-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 78.8 | | 2.0 | CU | | 18-NOV-22 | R5894556 |
| Conductivity (EC) | 264 | | 1.0 | uS/cm | | 18-NOV-22 | R5894583 |
| Hardness (as CaCO3) | 135 | | 0.50 | | | 17-NOV-22 | |
| pH | 7.80 | | 0.10 | pH | | 18-NOV-22 | R5894583 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 17-NOV-22 | R5894163 |
| Total Dissolved Solids | 176 | | 13 | mg/L | | 17-NOV-22 | R5894236 |
| Turbidity | 2.22 | | 0.10 | NTU | | 18-NOV-22 | R5894199 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.2 | <DL | 2.0 | mg/L | | 19-NOV-22 | R5895821 |
| Alkalinity, Total (as CaCO3) | 119 | | 2.0 | mg/L | | 18-NOV-22 | R5894583 |
| Ammonia, Total (as N) | 0.022 | <T | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Chloride (Cl) | 9.45 | | 0.10 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Fluoride (F) | 0.060 | | 0.020 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Nitrate (as N) | 0.032 | <T | 0.020 | mg/L | | 19-NOV-22 | R5895058 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-4 SW06_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 19-NOV-22 | R5895058 |
| Total Kjeldahl Nitrogen | 1.00 | | 0.050 | mg/L | 18-NOV-22 | 22-NOV-22 | R5897126 |
| Orthophosphate-Dissolved (as P) | 0.0048 | | 0.0010 | mg/L | 18-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 10.1 | | 0.30 | mg/L | | 19-NOV-22 | R5895058 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0003 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Free | 0.0009 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 21.9 | | 0.50 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895376 |
| Total Organic Carbon | 21.9 | | 0.50 | mg/L | | 24-NOV-22 | R5897641 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0734 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | 0.000070 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.000715 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0145 | | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.010 | <T | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000064 | <T | 0.0000050 | mg/L | | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 31.8 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.0000108 | | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00072 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.000128 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | 0.00100 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.281 | | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.00012 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0026 | <T | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 12.0 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0170 | | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 21-NOV-22 | R5895036 |
| Molybdenum (Mo)-Total | 0.000540 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00108 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | 0.012 | <DL | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 1.53 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00171 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000140 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 3.21 | | 0.10 | mg/L | | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.0000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 3.34 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.0731 | | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 3.70 | | 0.50 | mg/L | | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-4 SW06_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tellurium (Te)-Total | 0.000020 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | 0.000003 | <DL | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | 0.000022 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00244 | | 0.00030 | mg/L | | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.000896 | <T | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00050 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0088 | <T | 0.0030 | mg/L | | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.000192 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5896979 |
| Aluminum (Al)-Dissolved | 0.0096 | <T | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Antimony (Sb)-Dissolved | 0.000065 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Arsenic (As)-Dissolved | 0.000720 | <T | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Barium (Ba)-Dissolved | 0.0136 | | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Boron (B)-Dissolved | 0.012 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Cadmium (Cd)-Dissolved | 0.0000030 | <DL | 0.0000050 | mg/L | | 24-NOV-22 | R5897131 |
| Calcium (Ca)-Dissolved | 34.0 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Cesium (Cs)-Dissolved | 0.0000024 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Chromium (Cr)-Dissolved | 0.00014 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Cobalt (Co)-Dissolved | 0.000078 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Copper (Cu)-Dissolved | 0.00095 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Iron (Fe)-Dissolved | 0.123 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Lithium (Li)-Dissolved | 0.0032 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Magnesium (Mg)-Dissolved | 12.1 | | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Manganese (Mn)-Dissolved | 0.00386 | | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 22-NOV-22 | R5895577 |
| Molybdenum (Mo)-Dissolved | 0.000505 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Nickel (Ni)-Dissolved | 0.00092 | <T | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Potassium (K)-Dissolved | 1.51 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Rubidium (Rb)-Dissolved | 0.00146 | | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Selenium (Se)-Dissolved | 0.000164 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Silicon (Si)-Dissolved | 2.92 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Silver (Ag)-Dissolved | 0.0000005 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Sodium (Na)-Dissolved | 3.32 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Strontium (Sr)-Dissolved | 0.0692 | | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|----------|----------|-----------|-----------|----------|
| L2740657-4 SW06_SW_20221108 Sampled By: Client on 11-NOV-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Sulfur (S)-Dissolved | 3.70 | | 0.50 | mg/L | | 24-NOV-22 | R5897131 |
| Tellurium (Te)-Dissolved | 0.000005 | <DL | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Thallium (Tl)-Dissolved | 0.000001 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Thorium (Th)-Dissolved | 0.000020 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Titanium (Ti)-Dissolved | 0.00084 | | 0.00030 | mg/L | | 24-NOV-22 | R5897131 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Uranium (U)-Dissolved | 0.000873 | <T | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Vanadium (V)-Dissolved | 0.00032 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Zinc (Zn)-Dissolved | 0.0072 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Zirconium (Zr)-Dissolved | 0.000256 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 18-NOV-22 | R5896456 |
| Chemical Oxygen Demand | 64 | | 10 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895176 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 21-NOV-22 | 21-NOV-22 | R5895976 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740657-5 SW20_SW_20221108 Sampled By: Client on 11-NOV-22 @ 12:55 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 8.45 | | 0 | mg/L | | 17-NOV-22 | R5893338 |
| pH, Client Supplied | 6.64 | | 0.10 | pH | | 17-NOV-22 | R5893338 |
| Temperature, Client Supplied | 1.72 | | 0 | Degree C | | 17-NOV-22 | R5893338 |
| Physical Tests | | | | | | | |
| Color, True | 88.6 | | 2.0 | CU | | 18-NOV-22 | R5894556 |
| Conductivity (EC) | 330 | | 1.0 | uS/cm | | 18-NOV-22 | R5894583 |
| Hardness (as CaCO3) | 144 | | 0.50 | | | 17-NOV-22 | |
| pH | 7.50 | | 0.10 | pH | | 18-NOV-22 | R5894583 |
| Total Suspended Solids | 5.0 | | 3.0 | mg/L | | 17-NOV-22 | R5894163 |
| Total Dissolved Solids | 230 | | 13 | mg/L | | 17-NOV-22 | R5894236 |
| Turbidity | 3.80 | | 0.10 | NTU | | 18-NOV-22 | R5894199 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 4.8 | | 2.0 | mg/L | | 19-NOV-22 | R5895821 |
| Alkalinity, Total (as CaCO3) | 127 | | 2.0 | mg/L | | 18-NOV-22 | R5894583 |
| Ammonia, Total (as N) | 0.022 | <T | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 22-NOV-22 | |
| Chloride (Cl) | 30.1 | | 0.10 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Fluoride (F) | 0.048 | | 0.020 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Nitrate (as N) | 0.008 | <DL | 0.020 | mg/L | | 19-NOV-22 | R5895058 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 19-NOV-22 | R5895058 |
| Total Kjeldahl Nitrogen | 0.978 | | 0.050 | mg/L | 18-NOV-22 | 22-NOV-22 | R5897126 |
| Orthophosphate-Dissolved (as P) | 0.0054 | | 0.0010 | mg/L | 18-NOV-22 | 23-NOV-22 | R5897360 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-5 SW20_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 12:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Sulfate (SO4) | 3.90 | <T | 0.30 | mg/L | | 19-NOV-22 | R5895058 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0009 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Free | 0.0014 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 25.0 | | 0.50 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895376 |
| Total Organic Carbon | 24.9 | | 0.50 | mg/L | | 24-NOV-22 | R5897641 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.129 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.000670 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0155 | | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | 0.000014 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.012 | <T | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000080 | <T | 0.0000050 | mg/L | | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 32.8 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.0000178 | | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00078 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.000244 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | 0.00060 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.479 | | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.00012 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0048 | <T | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 14.7 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0521 | | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 21-NOV-22 | R5895036 |
| Molybdenum (Mo)-Total | 0.000255 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00132 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | 0.022 | <DL | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 1.71 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00203 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000130 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 5.37 | | 0.10 | mg/L | | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.0000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 13.5 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.0891 | | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 1.65 | | 0.50 | mg/L | | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | 0.000005 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | 0.000003 | <DL | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | 0.000040 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-5 SW20_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 12:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tin (Sn)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00404 | | 0.00030 | mg/L | | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | <0.000002 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.000486 | <T | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00064 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0024 | <DL | 0.0030 | mg/L | | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.000316 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5896979 |
| Aluminum (Al)-Dissolved | 0.0106 | <T | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Antimony (Sb)-Dissolved | 0.000045 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Arsenic (As)-Dissolved | 0.000640 | <T | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Barium (Ba)-Dissolved | 0.0149 | | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Boron (B)-Dissolved | 0.012 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Cadmium (Cd)-Dissolved | 0.0000046 | <DL | 0.0000050 | mg/L | | 24-NOV-22 | R5897131 |
| Calcium (Ca)-Dissolved | 33.3 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Cesium (Cs)-Dissolved | 0.0000008 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Cobalt (Co)-Dissolved | 0.000060 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Copper (Cu)-Dissolved | 0.00060 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Iron (Fe)-Dissolved | 0.209 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Lithium (Li)-Dissolved | 0.0054 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Magnesium (Mg)-Dissolved | 14.7 | | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Manganese (Mn)-Dissolved | 0.00364 | | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 22-NOV-22 | R5895577 |
| Molybdenum (Mo)-Dissolved | 0.000260 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Nickel (Ni)-Dissolved | 0.00110 | <T | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Phosphorus (P)-Dissolved | 0.012 | <DL | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Potassium (K)-Dissolved | 1.74 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Rubidium (Rb)-Dissolved | 0.00161 | | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Selenium (Se)-Dissolved | 0.000158 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Silicon (Si)-Dissolved | 4.88 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Silver (Ag)-Dissolved | 0.0000005 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Sodium (Na)-Dissolved | 13.3 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Strontium (Sr)-Dissolved | 0.0910 | | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Sulfur (S)-Dissolved | 1.65 | | 0.50 | mg/L | | 24-NOV-22 | R5897131 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Thallium (Tl)-Dissolved | 0.000001 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------------|------------|----------|----------|-----------|-----------|----------|
| L2740657-5 SW20_SW_20221108 Sampled By: Client on 11-NOV-22 @ 12:55 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thorium (Th)-Dissolved | 0.000024 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Titanium (Ti)-Dissolved | 0.00086 | | 0.00030 | mg/L | | 24-NOV-22 | R5897131 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Uranium (U)-Dissolved | 0.000473 | <T | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Vanadium (V)-Dissolved | 0.00032 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Zinc (Zn)-Dissolved | 0.0014 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Zirconium (Zr)-Dissolved | 0.000300 | | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 18-NOV-22 | R5896456 |
| Chemical Oxygen Demand | 74 | | 10 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895176 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 21-NOV-22 | 21-NOV-22 | R5895976 |
| Radiological Parameters | | | | | | | |
| Radium-226 | See Attached | | 0.005 | Bq/L | | 18-NOV-22 | R5898877 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740657-6 SW10_SW_20221108 Sampled By: Client on 11-NOV-22 @ 13:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 8.45 | | 0 | mg/L | | 17-NOV-22 | R5893338 |
| pH, Client Supplied | 6.64 | | 0.10 | pH | | 17-NOV-22 | R5893338 |
| Temperature, Client Supplied | 1.72 | | 0 | Degree C | | 17-NOV-22 | R5893338 |
| Physical Tests | | | | | | | |
| Color, True | 92.0 | | 2.0 | CU | | 18-NOV-22 | R5894556 |
| Conductivity (EC) | 350 | | 1.0 | uS/cm | | 18-NOV-22 | R5894583 |
| Hardness (as CaCO3) | 169 | | 0.50 | | | 17-NOV-22 | |
| pH | 7.47 | | 0.10 | pH | | 18-NOV-22 | R5894583 |
| Total Suspended Solids | 23.5 | | 3.0 | mg/L | | 17-NOV-22 | R5894163 |
| Total Dissolved Solids | 240 | | 20 | mg/L | | 17-NOV-22 | R5894236 |
| Turbidity | 23.3 | | 0.10 | NTU | | 18-NOV-22 | R5894199 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 5.8 | | 2.0 | mg/L | | 19-NOV-22 | R5895821 |
| Alkalinity, Total (as CaCO3) | 159 | | 2.0 | mg/L | | 18-NOV-22 | R5894583 |
| Ammonia, Total (as N) | 0.318 | | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 22-NOV-22 | |
| Chloride (Cl) | 18.2 | | 0.10 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Fluoride (F) | 0.051 | | 0.020 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Nitrate (as N) | 0.012 | <DL | 0.020 | mg/L | | 19-NOV-22 | R5895058 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 19-NOV-22 | R5895058 |
| Total Kjeldahl Nitrogen | 2.05 | | 0.050 | mg/L | 18-NOV-22 | 22-NOV-22 | R5897126 |
| Orthophosphate-Dissolved (as P) | 0.0248 | | 0.0010 | mg/L | 18-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 4.05 | <T | 0.30 | mg/L | | 19-NOV-22 | R5895058 |
| Cyanides | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-6 SW10_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 13:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0010 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Free | 0.0013 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 27.5 | | 0.50 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895376 |
| Total Organic Carbon | 28.2 | | 0.50 | mg/L | | 24-NOV-22 | R5897641 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.639 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | 0.000055 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.00117 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0297 | | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | 0.000034 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | 0.000010 | <DL | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.016 | <T | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000192 | <T | 0.0000050 | mg/L | | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 38.1 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.0000858 | | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00158 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.00101 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | 0.00180 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 1.42 | | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.00052 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0058 | <T | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 17.8 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.361 | | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 21-NOV-22 | R5895036 |
| Molybdenum (Mo)-Total | 0.000410 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00250 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | 0.074 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 2.38 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00371 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000152 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 7.50 | | 0.10 | mg/L | | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | 0.0000010 | <DL | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 8.80 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.122 | | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 1.80 | | 0.50 | mg/L | | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | 0.000025 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | 0.000010 | <T | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | 0.000086 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-6 SW10_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 13:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Titanium (Ti)-Total | 0.0167 | | 0.00030 | mg/L | | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.000979 | <T | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00208 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0052 | <T | 0.0030 | mg/L | | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.000528 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5896979 |
| Aluminum (Al)-Dissolved | 0.0154 | <T | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Antimony (Sb)-Dissolved | 0.000050 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Arsenic (As)-Dissolved | 0.000845 | <T | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Barium (Ba)-Dissolved | 0.0197 | | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Boron (B)-Dissolved | 0.016 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Cadmium (Cd)-Dissolved | 0.0000048 | <DL | 0.0000050 | mg/L | | 24-NOV-22 | R5897131 |
| Calcium (Ca)-Dissolved | 39.0 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Cesium (Cs)-Dissolved | 0.0000014 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Chromium (Cr)-Dissolved | 0.00018 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Cobalt (Co)-Dissolved | 0.000124 | <T | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Copper (Cu)-Dissolved | 0.00085 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Iron (Fe)-Dissolved | 0.289 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Lead (Pb)-Dissolved | 0.00006 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Lithium (Li)-Dissolved | 0.0064 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Magnesium (Mg)-Dissolved | 17.3 | | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Manganese (Mn)-Dissolved | 0.00400 | | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 22-NOV-22 | R5895577 |
| Molybdenum (Mo)-Dissolved | 0.000390 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Nickel (Ni)-Dissolved | 0.00160 | <T | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Phosphorus (P)-Dissolved | 0.032 | <DL | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Potassium (K)-Dissolved | 2.36 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Rubidium (Rb)-Dissolved | 0.00205 | | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Selenium (Se)-Dissolved | 0.000186 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Silicon (Si)-Dissolved | 5.86 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Sodium (Na)-Dissolved | 8.54 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Strontium (Sr)-Dissolved | 0.110 | | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Sulfur (S)-Dissolved | 1.80 | | 0.50 | mg/L | | 24-NOV-22 | R5897131 |
| Tellurium (Te)-Dissolved | 0.000010 | <DL | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Thallium (Tl)-Dissolved | 0.000001 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Thorium (Th)-Dissolved | 0.000034 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2740657-6 SW10_SW_20221108 Sampled By: Client on 11-NOV-22 @ 13:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Titanium (Ti)-Dissolved | 0.00224 | | 0.00030 | mg/L | | 24-NOV-22 | R5897131 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Uranium (U)-Dissolved | 0.000931 | <T | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Vanadium (V)-Dissolved | 0.00054 | <T | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Zinc (Zn)-Dissolved | 0.0006 | <DL | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Zirconium (Zr)-Dissolved | 0.000352 | | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 18-NOV-22 | R5896456 |
| Chemical Oxygen Demand | 84 | | 10 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895176 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 21-NOV-22 | 21-NOV-22 | R5895976 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740657-7 SW28A_SW_20221108 Sampled By: Client on 11-NOV-22 @ 13:35 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 15.65 | | 0 | mg/L | | 27-NOV-22 | R5898241 |
| pH, Client Supplied | 6.96 | | 0.10 | pH | | 27-NOV-22 | R5898241 |
| Temperature, Client Supplied | .14 | | 0 | Degree C | | 27-NOV-22 | R5898241 |
| Physical Tests | | | | | | | |
| Color, True | 108 | | 2.0 | CU | | 18-NOV-22 | R5894556 |
| Conductivity (EC) | 193 | | 1.0 | uS/cm | | 18-NOV-22 | R5894583 |
| Hardness (as CaCO3) | 109 | | 0.50 | | | 17-NOV-22 | |
| pH | 7.74 | | 0.10 | pH | | 18-NOV-22 | R5894583 |
| Total Suspended Solids | 4.0 | | 3.0 | mg/L | | 17-NOV-22 | R5894163 |
| Total Dissolved Solids | 148 | | 13 | mg/L | | 17-NOV-22 | R5894236 |
| Turbidity | 2.01 | | 0.10 | NTU | | 18-NOV-22 | R5894199 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.0 | <DL | 2.0 | mg/L | | 19-NOV-22 | R5895821 |
| Alkalinity, Total (as CaCO3) | 104 | | 2.0 | mg/L | | 18-NOV-22 | R5894583 |
| Ammonia, Total (as N) | 0.046 | <T | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-NOV-22 | |
| Chloride (Cl) | 1.80 | | 0.10 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Fluoride (F) | 0.057 | | 0.020 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Nitrate (as N) | 0.062 | <T | 0.020 | mg/L | | 19-NOV-22 | R5895058 |
| Nitrite (as N) | 0.001 | <DL | 0.010 | mg/L | | 19-NOV-22 | R5895058 |
| Total Kjeldahl Nitrogen | 1.20 | | 0.050 | mg/L | 18-NOV-22 | 22-NOV-22 | R5897126 |
| Orthophosphate-Dissolved (as P) | 0.0039 | | 0.0010 | mg/L | 18-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 0.55 | <T | 0.30 | mg/L | | 19-NOV-22 | R5895058 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0010 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-7 SW28A_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 13:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Free | 0.0013 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 30.5 | | 0.50 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895376 |
| Total Organic Carbon | 31.1 | | 0.50 | mg/L | | 24-NOV-22 | R5897641 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0726 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | 0.000035 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.000785 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0125 | | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | 0.000014 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.010 | <T | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000054 | <T | 0.0000050 | mg/L | | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 24.9 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.0000126 | | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00056 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.000164 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | 0.00065 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.258 | | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.00008 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0028 | <T | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 11.5 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0175 | | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 21-NOV-22 | R5895036 |
| Molybdenum (Mo)-Total | 0.000455 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00098 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | 0.024 | <DL | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 0.870 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00182 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000120 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 2.77 | | 0.10 | mg/L | | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.0000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 1.27 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.0584 | | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 0.50 | | 0.50 | mg/L | | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | 0.000020 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | 0.000003 | <DL | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | 0.000022 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00214 | | 0.00030 | mg/L | | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | <0.000002 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-7 SW28A_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 13:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Uranium (U)-Total | 0.000430 | <T | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00048 | <DL | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0016 | <DL | 0.0030 | mg/L | | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.000160 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5896979 |
| Aluminum (Al)-Dissolved | 0.0046 | <DL | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Arsenic (As)-Dissolved | 0.000765 | <T | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Barium (Ba)-Dissolved | 0.0111 | | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Beryllium (Be)-Dissolved | 0.000014 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Boron (B)-Dissolved | 0.010 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Cadmium (Cd)-Dissolved | 0.0000030 | <DL | 0.0000050 | mg/L | | 24-NOV-22 | R5897131 |
| Calcium (Ca)-Dissolved | 24.8 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Cesium (Cs)-Dissolved | 0.0000012 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Chromium (Cr)-Dissolved | 0.00012 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Cobalt (Co)-Dissolved | 0.000082 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Copper (Cu)-Dissolved | 0.00055 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Iron (Fe)-Dissolved | 0.105 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Lead (Pb)-Dissolved | <0.00002 | <W | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Lithium (Li)-Dissolved | 0.0030 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Magnesium (Mg)-Dissolved | 11.3 | | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Manganese (Mn)-Dissolved | 0.00130 | | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 22-NOV-22 | R5895577 |
| Molybdenum (Mo)-Dissolved | 0.000425 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Nickel (Ni)-Dissolved | 0.00080 | <T | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Phosphorus (P)-Dissolved | 0.004 | <DL | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Potassium (K)-Dissolved | 0.816 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Rubidium (Rb)-Dissolved | 0.00148 | | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Selenium (Se)-Dissolved | 0.000152 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Silicon (Si)-Dissolved | 2.38 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Sodium (Na)-Dissolved | 1.19 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Strontium (Sr)-Dissolved | 0.0549 | | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Sulfur (S)-Dissolved | 0.50 | | 0.50 | mg/L | | 24-NOV-22 | R5897131 |
| Tellurium (Te)-Dissolved | 0.000010 | <DL | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Thorium (Th)-Dissolved | 0.000018 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Titanium (Ti)-Dissolved | 0.00032 | | 0.00030 | mg/L | | 24-NOV-22 | R5897131 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2740657-7 SW28A_SW_20221108 Sampled By: Client on 11-NOV-22 @ 13:35 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Uranium (U)-Dissolved | 0.000418 | <T | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Vanadium (V)-Dissolved | 0.00026 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Zinc (Zn)-Dissolved | 0.0008 | <DL | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Zirconium (Zr)-Dissolved | 0.000152 | <DL | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 18-NOV-22 | R5896456 |
| Chemical Oxygen Demand | 87 | | 10 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895176 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 21-NOV-22 | 21-NOV-22 | R5895976 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740657-8 SW02_SW_20221108 Sampled By: Client on 11-NOV-22 @ 14:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.34 | | 0 | mg/L | | 27-NOV-22 | R5898241 |
| pH, Client Supplied | 6.87 | | 0.10 | pH | | 27-NOV-22 | R5898241 |
| Temperature, Client Supplied | .45 | | 0 | Degree C | | 27-NOV-22 | R5898241 |
| Physical Tests | | | | | | | |
| Color, True | 129 | | 2.0 | CU | | 18-NOV-22 | R5894556 |
| Conductivity (EC) | 97.2 | | 1.0 | uS/cm | | 18-NOV-22 | R5894583 |
| Hardness (as CaCO3) | 57.1 | | 0.50 | | | 17-NOV-22 | |
| pH | 7.20 | | 0.10 | pH | | 18-NOV-22 | R5894583 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 17-NOV-22 | R5894163 |
| Total Dissolved Solids | 100 | | 13 | mg/L | | 17-NOV-22 | R5894236 |
| Turbidity | 0.64 | | 0.10 | NTU | | 18-NOV-22 | R5894199 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 3.6 | | 2.0 | mg/L | | 19-NOV-22 | R5895821 |
| Alkalinity, Total (as CaCO3) | 50.8 | | 2.0 | mg/L | | 18-NOV-22 | R5894583 |
| Ammonia, Total (as N) | 0.010 | <T | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-NOV-22 | |
| Chloride (Cl) | 0.51 | | 0.10 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Fluoride (F) | 0.025 | | 0.020 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Nitrate (as N) | 0.022 | <T | 0.020 | mg/L | | 19-NOV-22 | R5895058 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 19-NOV-22 | R5895058 |
| Total Kjeldahl Nitrogen | 1.48 | | 0.050 | mg/L | 18-NOV-22 | 22-NOV-22 | R5897126 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 18-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 0.20 | <DL | 0.30 | mg/L | | 19-NOV-22 | R5895058 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0010 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Free | 0.0013 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 29.3 | | 0.50 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895376 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-8 SW02_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 14:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Total Organic Carbon | 29.0 | | 0.50 | mg/L | | 24-NOV-22 | R5897641 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0386 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | 0.000025 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.000500 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.00602 | | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | 0.000006 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.006 | <DL | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000038 | <DL | 0.0000050 | mg/L | | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 13.5 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.0000030 | <DL | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00046 | <DL | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.000076 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | 0.00030 | <DL | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.208 | | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.00006 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0012 | <T | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 5.95 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0113 | | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 21-NOV-22 | R5895036 |
| Molybdenum (Mo)-Total | 0.000105 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00050 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | <0.002 | <W | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 0.406 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.000930 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000094 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 4.35 | | 0.10 | mg/L | | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.0000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 0.865 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.0203 | | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 0.20 | <DL | 0.50 | mg/L | | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | 0.000020 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | <0.000001 | <W | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | 0.00006 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00086 | | 0.00030 | mg/L | | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | <0.000002 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.0000280 | <T | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00020 | <DL | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0016 | <DL | 0.0030 | mg/L | | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-8 SW02_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 14:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Zirconium (Zr)-Total | 0.000088 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5896979 |
| Aluminum (Al)-Dissolved | 0.0248 | <T | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Antimony (Sb)-Dissolved | 0.000025 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Arsenic (As)-Dissolved | 0.000500 | <T | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Barium (Ba)-Dissolved | 0.00596 | | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Boron (B)-Dissolved | 0.006 | <DL | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Cadmium (Cd)-Dissolved | 0.0000020 | <DL | 0.0000050 | mg/L | | 24-NOV-22 | R5897131 |
| Calcium (Ca)-Dissolved | 13.6 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Chromium (Cr)-Dissolved | 0.00012 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Cobalt (Co)-Dissolved | 0.000046 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Copper (Cu)-Dissolved | 0.00025 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Iron (Fe)-Dissolved | 0.148 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Lithium (Li)-Dissolved | 0.0016 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Magnesium (Mg)-Dissolved | 5.62 | | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Manganese (Mn)-Dissolved | 0.00506 | | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 22-NOV-22 | R5895577 |
| Molybdenum (Mo)-Dissolved | 0.000090 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Nickel (Ni)-Dissolved | 0.00038 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Phosphorus (P)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Potassium (K)-Dissolved | 0.394 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Rubidium (Rb)-Dissolved | 0.000774 | | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Selenium (Se)-Dissolved | 0.000108 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Silicon (Si)-Dissolved | 4.09 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Silver (Ag)-Dissolved | 0.0000005 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Sodium (Na)-Dissolved | 0.860 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Strontium (Sr)-Dissolved | 0.0210 | | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Sulfur (S)-Dissolved | 0.15 | <DL | 0.50 | mg/L | | 24-NOV-22 | R5897131 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Thallium (Tl)-Dissolved | 0.000001 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Thorium (Th)-Dissolved | 0.000010 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Titanium (Ti)-Dissolved | 0.00044 | | 0.00030 | mg/L | | 24-NOV-22 | R5897131 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Uranium (U)-Dissolved | 0.0000265 | <T | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Vanadium (V)-Dissolved | 0.00016 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|---------|----------|-----------|-----------|----------|
| L2740657-8 SW02_SW_20221108 Sampled By: Client on 11-NOV-22 @ 14:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Zinc (Zn)-Dissolved | 0.0012 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Zirconium (Zr)-Dissolved | 0.000108 | <DL | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 18-NOV-22 | R5896456 |
| Chemical Oxygen Demand | 81 | | 10 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895176 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 21-NOV-22 | 21-NOV-22 | R5895976 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740657-9 SW27_SW_20221108 Sampled By: Client on 11-NOV-22 @ 16:00 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 12.38 | | 0 | mg/L | | 27-NOV-22 | R5898241 |
| pH, Client Supplied | 7.23 | | 0.10 | pH | | 27-NOV-22 | R5898241 |
| Temperature, Client Supplied | .54 | | 0 | Degree C | | 27-NOV-22 | R5898241 |
| Physical Tests | | | | | | | |
| Color, True | 65.6 | | 2.0 | CU | | 18-NOV-22 | R5894556 |
| Conductivity (EC) | 351 | | 1.0 | uS/cm | | 18-NOV-22 | R5894583 |
| Hardness (as CaCO3) | 172 | | 0.50 | | | 17-NOV-22 | |
| pH | 7.83 | | 0.10 | pH | | 18-NOV-22 | R5894583 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 17-NOV-22 | R5894163 |
| Total Dissolved Solids | 236 | | 20 | mg/L | | 17-NOV-22 | R5894236 |
| Turbidity | 3.77 | | 0.10 | NTU | | 18-NOV-22 | R5894199 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.2 | <DL | 2.0 | mg/L | | 19-NOV-22 | R5895821 |
| Alkalinity, Total (as CaCO3) | 150 | | 2.0 | mg/L | | 18-NOV-22 | R5894583 |
| Ammonia, Total (as N) | 0.004 | <DL | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-NOV-22 | |
| Chloride (Cl) | 12.3 | | 0.10 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Fluoride (F) | 0.061 | | 0.020 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 19-NOV-22 | R5895058 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 19-NOV-22 | R5895058 |
| Total Kjeldahl Nitrogen | 0.789 | | 0.050 | mg/L | 18-NOV-22 | 22-NOV-22 | R5897126 |
| Orthophosphate-Dissolved (as P) | 0.0054 | | 0.0010 | mg/L | 18-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 21.9 | | 0.30 | mg/L | | 19-NOV-22 | R5895058 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0011 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Free | 0.0012 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 21.0 | | 0.50 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895376 |
| Total Organic Carbon | 20.8 | | 0.50 | mg/L | | 24-NOV-22 | R5897641 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.115 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2740657-9 SW27_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 16:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Antimony (Sb)-Total | 0.000065 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.000760 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0192 | | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | 0.000012 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.012 | <T | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000066 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 39.9 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.0000158 | | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00060 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.000140 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | 0.00105 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.276 | | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.00010 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0038 | <T | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 16.5 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0197 | | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.000050 | mg/L | | 21-NOV-22 | R5895036 |
| Molybdenum (Mo)-Total | 0.000515 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00126 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | 0.014 | <DL | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 2.19 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00154 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000126 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 4.13 | | 0.10 | mg/L | | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.0000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 6.44 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.0986 | | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 8.00 | | 0.50 | mg/L | | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | <0.000005 | <W | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | 0.000003 | <DL | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | 0.000028 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00360 | | 0.00030 | mg/L | | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | 0.000004 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.00115 | <T | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00066 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0066 | <T | 0.0030 | mg/L | | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.000244 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5896979 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-9 SW27_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 16:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0086 | <T | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Antimony (Sb)-Dissolved | 0.000070 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Arsenic (As)-Dissolved | 0.000720 | <T | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Barium (Ba)-Dissolved | 0.0178 | | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Boron (B)-Dissolved | 0.012 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Cadmium (Cd)-Dissolved | 0.0000022 | <DL | 0.0000050 | mg/L | | 24-NOV-22 | R5897131 |
| Calcium (Ca)-Dissolved | 41.7 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Cesium (Cs)-Dissolved | 0.0000016 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Chromium (Cr)-Dissolved | 0.00012 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Cobalt (Co)-Dissolved | 0.000076 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Copper (Cu)-Dissolved | 0.00085 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Iron (Fe)-Dissolved | 0.088 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Lithium (Li)-Dissolved | 0.0044 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Magnesium (Mg)-Dissolved | 16.5 | | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Manganese (Mn)-Dissolved | 0.00654 | | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 22-NOV-22 | R5895577 |
| Molybdenum (Mo)-Dissolved | 0.000520 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Nickel (Ni)-Dissolved | 0.00104 | <T | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Phosphorus (P)-Dissolved | 0.008 | <DL | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Potassium (K)-Dissolved | 2.19 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Rubidium (Rb)-Dissolved | 0.00122 | | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Selenium (Se)-Dissolved | 0.000168 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Silicon (Si)-Dissolved | 3.69 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Silver (Ag)-Dissolved | 0.0000010 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Sodium (Na)-Dissolved | 6.32 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Strontium (Sr)-Dissolved | 0.0945 | | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Sulfur (S)-Dissolved | 7.70 | | 0.50 | mg/L | | 24-NOV-22 | R5897131 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Thallium (Tl)-Dissolved | 0.000001 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Thorium (Th)-Dissolved | 0.000020 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Titanium (Ti)-Dissolved | 0.00108 | | 0.00030 | mg/L | | 24-NOV-22 | R5897131 |
| Tungsten (W)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Uranium (U)-Dissolved | 0.00114 | <T | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Vanadium (V)-Dissolved | 0.00038 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Zinc (Zn)-Dissolved | 0.0048 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Zirconium (Zr)-Dissolved | 0.000280 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Aggregate Organics | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|---------|----------|-----------|-----------|----------|
| L2740657-9 SW27_SW_20221108 Sampled By: Client on 11-NOV-22 @ 16:00 Matrix: SW | | | | | | | |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 18-NOV-22 | R5896456 |
| Chemical Oxygen Demand | 61 | | 10 | mg/L | 18-NOV-22 | 23-NOV-22 | R5896502 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 21-NOV-22 | 21-NOV-22 | R5895976 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740657-10 SW21A_SW_20221108 Sampled By: Client on 11-NOV-22 @ 16:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 10.25 | | 0 | mg/L | | 27-NOV-22 | R5898241 |
| pH, Client Supplied | 6.91 | | 0.10 | pH | | 27-NOV-22 | R5898241 |
| Temperature, Client Supplied | 1.36 | | 0 | Degree C | | 27-NOV-22 | R5898241 |
| Physical Tests | | | | | | | |
| Color, True | 42.9 | | 2.0 | CU | | 18-NOV-22 | R5894556 |
| Conductivity (EC) | 434 | | 1.0 | uS/cm | | 18-NOV-22 | R5894583 |
| Hardness (as CaCO3) | 198 | | 0.50 | | | 17-NOV-22 | |
| pH | 7.72 | | 0.10 | pH | | 18-NOV-22 | R5894583 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 17-NOV-22 | R5894163 |
| Total Dissolved Solids | 264 | | 20 | mg/L | | 17-NOV-22 | R5894236 |
| Turbidity | 1.98 | | 0.10 | NTU | | 18-NOV-22 | R5894199 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.4 | | 2.0 | mg/L | | 19-NOV-22 | R5895821 |
| Alkalinity, Total (as CaCO3) | 160 | | 2.0 | mg/L | | 18-NOV-22 | R5894583 |
| Ammonia, Total (as N) | 0.010 | <T | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-NOV-22 | |
| Chloride (Cl) | 12.3 | | 0.10 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Fluoride (F) | 0.081 | | 0.020 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Nitrate (as N) | 0.288 | | 0.020 | mg/L | | 19-NOV-22 | R5895058 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 19-NOV-22 | R5895058 |
| Total Kjeldahl Nitrogen | 0.766 | | 0.050 | mg/L | 18-NOV-22 | 22-NOV-22 | R5897126 |
| Orthophosphate-Dissolved (as P) | 0.0137 | | 0.0010 | mg/L | 18-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 56.5 | | 0.30 | mg/L | | 19-NOV-22 | R5895058 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0011 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Free | 0.0012 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 18.4 | | 0.50 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895376 |
| Total Organic Carbon | 16.1 | | 0.50 | mg/L | | 28-NOV-22 | R5899037 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0472 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | 0.000455 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.00107 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0228 | | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-10 SW21A_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 16:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Beryllium (Be)-Total | 0.000008 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.036 | <T | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000052 | <T | 0.0000050 | mg/L | | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 42.4 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.0000160 | | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00046 | <DL | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.000182 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | 0.00070 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.244 | | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.00006 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0096 | <T | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 22.0 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0554 | | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 21-NOV-22 | R5895036 |
| Molybdenum (Mo)-Total | 0.00175 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00108 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | 0.024 | <DL | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 3.64 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00331 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000198 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 3.00 | | 0.10 | mg/L | | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.0000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 14.0 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.174 | | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 20.0 | | 0.50 | mg/L | | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | 0.000015 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | 0.000002 | <DL | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00174 | | 0.00030 | mg/L | | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | 0.000014 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.00110 | <T | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00052 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0012 | <DL | 0.0030 | mg/L | | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.000140 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5896979 |
| Aluminum (Al)-Dissolved | 0.0024 | <DL | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Antimony (Sb)-Dissolved | 0.000450 | <T | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Arsenic (As)-Dissolved | 0.000990 | <T | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-10 SW21A_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 16:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Barium (Ba)-Dissolved | 0.0215 | | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Boron (B)-Dissolved | 0.036 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Cadmium (Cd)-Dissolved | 0.0000034 | <DL | 0.0000050 | mg/L | | 24-NOV-22 | R5897131 |
| Calcium (Ca)-Dissolved | 43.2 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Cesium (Cs)-Dissolved | 0.0000082 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Chromium (Cr)-Dissolved | 0.00084 | <T | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Cobalt (Co)-Dissolved | 0.000080 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Copper (Cu)-Dissolved | 0.00065 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Iron (Fe)-Dissolved | 0.072 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Lead (Pb)-Dissolved | <0.00002 | <W | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Lithium (Li)-Dissolved | 0.0108 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Magnesium (Mg)-Dissolved | 22.0 | | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Manganese (Mn)-Dissolved | 0.00200 | | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 22-NOV-22 | R5895577 |
| Molybdenum (Mo)-Dissolved | 0.00157 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Nickel (Ni)-Dissolved | 0.00104 | <T | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Phosphorus (P)-Dissolved | 0.018 | <DL | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Potassium (K)-Dissolved | 3.69 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Rubidium (Rb)-Dissolved | 0.00309 | | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Selenium (Se)-Dissolved | 0.000212 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Silicon (Si)-Dissolved | 2.72 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Silver (Ag)-Dissolved | 0.0000005 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Sodium (Na)-Dissolved | 14.1 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Strontium (Sr)-Dissolved | 0.164 | | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Sulfur (S)-Dissolved | 19.1 | | 0.50 | mg/L | | 24-NOV-22 | R5897131 |
| Tellurium (Te)-Dissolved | 0.000010 | <DL | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Thorium (Th)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Titanium (Ti)-Dissolved | 0.00016 | <DL | 0.00030 | mg/L | | 24-NOV-22 | R5897131 |
| Tungsten (W)-Dissolved | 0.000014 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Uranium (U)-Dissolved | 0.00111 | <T | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Vanadium (V)-Dissolved | 0.00034 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Zinc (Zn)-Dissolved | 0.0008 | <DL | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Zirconium (Zr)-Dissolved | 0.000120 | <DL | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 18-NOV-22 | R5896456 |
| Chemical Oxygen Demand | 60 | | 10 | mg/L | 18-NOV-22 | 23-NOV-22 | R5896502 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 21-NOV-22 | 21-NOV-22 | R5895976 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2740657-10 SW21A_SW_20221108 Sampled By: Client on 11-NOV-22 @ 16:10 Matrix: SW Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740657-11 SW22A_SW_20221108 Sampled By: Client on 11-NOV-22 @ 16:40 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.26 | | 0 | mg/L | | 27-NOV-22 | R5898241 |
| pH, Client Supplied | 7.01 | | 0.10 | pH | | 27-NOV-22 | R5898241 |
| Temperature, Client Supplied | 1.08 | | 0 | Degree C | | 27-NOV-22 | R5898241 |
| Physical Tests | | | | | | | |
| Color, True | 45.8 | | 2.0 | CU | | 18-NOV-22 | R5894556 |
| Conductivity (EC) | 421 | | 1.0 | uS/cm | | 18-NOV-22 | R5894583 |
| Hardness (as CaCO3) | 194 | | 0.50 | | | 17-NOV-22 | |
| pH | 7.86 | | 0.10 | pH | | 18-NOV-22 | R5894583 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 17-NOV-22 | R5894163 |
| Total Dissolved Solids | 274 | | 20 | mg/L | | 17-NOV-22 | R5894236 |
| Turbidity | 2.04 | | 0.10 | NTU | | 18-NOV-22 | R5894199 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.2 | <DL | 2.0 | mg/L | | 19-NOV-22 | R5895821 |
| Alkalinity, Total (as CaCO3) | 160 | | 2.0 | mg/L | | 18-NOV-22 | R5894583 |
| Ammonia, Total (as N) | 0.012 | <T | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 27-NOV-22 | |
| Chloride (Cl) | 12.5 | | 0.10 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Fluoride (F) | 0.078 | | 0.020 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Nitrate (as N) | 0.240 | <T | 0.020 | mg/L | | 19-NOV-22 | R5895058 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 19-NOV-22 | R5895058 |
| Total Kjeldahl Nitrogen | 1.03 | | 0.050 | mg/L | 18-NOV-22 | 22-NOV-22 | R5897126 |
| Orthophosphate-Dissolved (as P) | 0.0132 | | 0.0010 | mg/L | 18-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 50.7 | | 0.30 | mg/L | | 19-NOV-22 | R5895058 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0010 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Free | 0.0011 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 18.7 | | 0.50 | mg/L | 18-NOV-22 | 21-NOV-22 | R5895376 |
| Total Organic Carbon | 17.1 | | 0.50 | mg/L | | 28-NOV-22 | R5899037 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0728 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | 0.000400 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.00101 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0219 | | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.032 | <T | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000056 | <T | 0.0000050 | mg/L | | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-11 SW22A_SW_20221108 | | | | | | | |
| Sampled By: Client on 11-NOV-22 @ 16:40 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Calcium (Ca)-Total | 42.9 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.0000170 | | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00056 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.000178 | <T | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | 0.00070 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.264 | | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.00006 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0088 | <T | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 21.3 | | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0487 | | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 21-NOV-22 | R5895036 |
| Molybdenum (Mo)-Total | 0.00155 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00120 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | 0.028 | <DL | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 3.49 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00317 | | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000192 | <T | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 3.29 | | 0.10 | mg/L | | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.0000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 12.9 | | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.171 | | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 18.0 | | 0.50 | mg/L | | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | 0.000020 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | 0.000002 | <DL | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | 0.000018 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00292 | | 0.00030 | mg/L | | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | 0.000012 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.00115 | <T | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00054 | <T | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0022 | <DL | 0.0030 | mg/L | | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.000164 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5896979 |
| Aluminum (Al)-Dissolved | 0.0028 | <DL | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Antimony (Sb)-Dissolved | 0.000415 | <T | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Arsenic (As)-Dissolved | 0.000930 | <T | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Barium (Ba)-Dissolved | 0.0205 | | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Boron (B)-Dissolved | 0.032 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-11 SW22A_SW_20221108 Sampled By: Client on 11-NOV-22 @ 16:40 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Cadmium (Cd)-Dissolved | 0.0000022 | <DL | 0.0000050 | mg/L | | 24-NOV-22 | R5897131 |
| Calcium (Ca)-Dissolved | 42.8 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Cesium (Cs)-Dissolved | 0.0000062 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Chromium (Cr)-Dissolved | 0.00008 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Cobalt (Co)-Dissolved | 0.000080 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Copper (Cu)-Dissolved | 0.00065 | <T | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Iron (Fe)-Dissolved | 0.064 | | 0.010 | mg/L | | 24-NOV-22 | R5897131 |
| Lead (Pb)-Dissolved | <0.00002 | <W | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Lithium (Li)-Dissolved | 0.0096 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Magnesium (Mg)-Dissolved | 21.1 | | 0.0050 | mg/L | | 24-NOV-22 | R5897131 |
| Manganese (Mn)-Dissolved | 0.00102 | | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 22-NOV-22 | R5895577 |
| Molybdenum (Mo)-Dissolved | 0.00154 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Nickel (Ni)-Dissolved | 0.00096 | <T | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Phosphorus (P)-Dissolved | 0.014 | <DL | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Potassium (K)-Dissolved | 3.52 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Rubidium (Rb)-Dissolved | 0.00281 | | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Selenium (Se)-Dissolved | 0.000230 | <T | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Silicon (Si)-Dissolved | 2.89 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Silver (Ag)-Dissolved | 0.0000005 | <DL | 0.000050 | mg/L | | 24-NOV-22 | R5897131 |
| Sodium (Na)-Dissolved | 12.6 | | 0.050 | mg/L | | 24-NOV-22 | R5897131 |
| Strontium (Sr)-Dissolved | 0.160 | | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Sulfur (S)-Dissolved | 17.5 | | 0.50 | mg/L | | 24-NOV-22 | R5897131 |
| Tellurium (Te)-Dissolved | 0.000010 | <DL | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Thallium (Tl)-Dissolved | 0.000002 | <DL | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Thorium (Th)-Dissolved | 0.000006 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Titanium (Ti)-Dissolved | 0.00024 | <DL | 0.00030 | mg/L | | 24-NOV-22 | R5897131 |
| Tungsten (W)-Dissolved | 0.000012 | <DL | 0.00010 | mg/L | | 24-NOV-22 | R5897131 |
| Uranium (U)-Dissolved | 0.00112 | <T | 0.000010 | mg/L | | 24-NOV-22 | R5897131 |
| Vanadium (V)-Dissolved | 0.00032 | <DL | 0.00050 | mg/L | | 24-NOV-22 | R5897131 |
| Zinc (Zn)-Dissolved | 0.0010 | <T | 0.0010 | mg/L | | 24-NOV-22 | R5897131 |
| Zirconium (Zr)-Dissolved | 0.000144 | <DL | 0.00020 | mg/L | | 24-NOV-22 | R5897131 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 18-NOV-22 | R5896456 |
| Chemical Oxygen Demand | 45 | | 10 | mg/L | 18-NOV-22 | 23-NOV-22 | R5896502 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 21-NOV-22 | 21-NOV-22 | R5895976 |
| Radiological Parameters | | | | | | | |
| Radium-226 | See Attached | | 0.005 | Bq/L | | 18-NOV-22 | R5898877 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740657-12 TB_SW_20221108 Sampled By: Client on 12-NOV-22 @ 12:00 | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-12 TB_SW_20221108 | | | | | | | |
| Sampled By: Client on 12-NOV-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 18-NOV-22 | R5894556 |
| Conductivity (EC) | 0.4 | <DL | 1.0 | uS/cm | | 18-NOV-22 | R5894583 |
| Hardness (as CaCO3) | <0.50 | | 0.50 | | | 17-NOV-22 | |
| pH | 5.15 | | 0.10 | pH | | 18-NOV-22 | R5894583 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 19-NOV-22 | R5895057 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 19-NOV-22 | R5895096 |
| Turbidity | <0.10 | | 0.10 | NTU | | 18-NOV-22 | R5894199 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.2 | <DL | 2.0 | mg/L | | 19-NOV-22 | R5895821 |
| Alkalinity, Total (as CaCO3) | 0.6 | <DL | 2.0 | mg/L | | 18-NOV-22 | R5894583 |
| Ammonia, Total (as N) | 0.004 | <DL | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 18-NOV-22 | 19-NOV-22 | R5895058 |
| Nitrate (as N) | 0.004 | <DL | 0.020 | mg/L | | 19-NOV-22 | R5895058 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 19-NOV-22 | R5895058 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 18-NOV-22 | 29-NOV-22 | R5900077 |
| Orthophosphate-Dissolved (as P) | 0.0019 | | 0.0010 | mg/L | 18-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 0.25 | <DL | 0.30 | mg/L | | 19-NOV-22 | R5895058 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 22-NOV-22 | R5896437 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 16-NOV-22 | 21-NOV-22 | R5895376 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 28-NOV-22 | R5899037 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0048 | <DL | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | <0.000005 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.000005 | <DL | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.00066 | | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | <0.000002 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Boron (B)-Total | <0.002 | <W | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | <0.0000002 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 0.005 | <DL | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | <0.0000002 | <W | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00040 | <DL | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | <0.000002 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | <0.00005 | <W | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.002 | <DL | 0.010 | mg/L | | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | <0.00002 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | <0.0002 | <W | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-12 TB_SW_20221108 | | | | | | | |
| Sampled By: Client on 12-NOV-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Magnesium (Mg)-Total | 0.0005 | <DL | 0.0050 | mg/L | | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.00002 | <DL | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 21-NOV-22 | R5895036 |
| Molybdenum (Mo)-Total | 0.000005 | <DL | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00006 | <DL | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | <0.002 | <W | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | <0.002 | <W | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | <0.000002 | <W | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | <0.000002 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 0.002 | <DL | 0.10 | mg/L | | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.0000005 | <W | 0.000050 | mg/L | | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 0.005 | <DL | 0.050 | mg/L | | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.00003 | <DL | 0.0010 | mg/L | | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | <0.05 | <W | 0.50 | mg/L | | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | 0.000040 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | <0.000001 | <W | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | <0.000002 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | <0.00001 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | <0.00002 | <W | 0.00030 | mg/L | | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | <0.000002 | <W | 0.00010 | mg/L | | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | <0.00002 | <W | 0.00050 | mg/L | | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0004 | <DL | 0.0030 | mg/L | | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.000008 | <DL | 0.00020 | mg/L | | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 21-NOV-22 | R5894897 |
| Aluminum (Al)-Dissolved | 0.0026 | <DL | 0.0050 | mg/L | | 21-NOV-22 | R5895397 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Arsenic (As)-Dissolved | <0.000005 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Barium (Ba)-Dissolved | 0.00032 | | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Bismuth (Bi)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 21-NOV-22 | R5895397 |
| Boron (B)-Dissolved | <0.002 | <W | 0.010 | mg/L | | 21-NOV-22 | R5895397 |
| Cadmium (Cd)-Dissolved | <0.0000002 | <W | 0.0000050 | mg/L | | 21-NOV-22 | R5895397 |
| Calcium (Ca)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 21-NOV-22 | R5895397 |
| Cesium (Cs)-Dissolved | <0.0000002 | <W | 0.000010 | mg/L | | 21-NOV-22 | R5895397 |
| Chromium (Cr)-Dissolved | 0.00014 | <DL | 0.00050 | mg/L | | 21-NOV-22 | R5895397 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Copper (Cu)-Dissolved | <0.00005 | <W | 0.00020 | mg/L | | 21-NOV-22 | R5895397 |
| Iron (Fe)-Dissolved | <0.001 | <W | 0.010 | mg/L | | 21-NOV-22 | R5895397 |
| Lead (Pb)-Dissolved | <0.00002 | <W | 0.000050 | mg/L | | 21-NOV-22 | R5895397 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740657-12 TB_SW_20221108 | | | | | | | |
| Sampled By: Client on 12-NOV-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.0010 | mg/L | | 21-NOV-22 | R5895397 |
| Magnesium (Mg)-Dissolved | <0.0005 | <W | 0.0050 | mg/L | | 21-NOV-22 | R5895397 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 21-NOV-22 | R5895397 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 22-NOV-22 | R5895577 |
| Molybdenum (Mo)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 21-NOV-22 | R5895397 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 21-NOV-22 | R5895397 |
| Phosphorus (P)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 21-NOV-22 | R5895397 |
| Potassium (K)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 21-NOV-22 | R5895397 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 21-NOV-22 | R5895397 |
| Selenium (Se)-Dissolved | 0.000002 | <DL | 0.000050 | mg/L | | 21-NOV-22 | R5895397 |
| Silicon (Si)-Dissolved | <0.002 | <W | 0.050 | mg/L | | 21-NOV-22 | R5895397 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.000050 | mg/L | | 21-NOV-22 | R5895397 |
| Sodium (Na)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 21-NOV-22 | R5895397 |
| Strontium (Sr)-Dissolved | 0.00001 | <DL | 0.0010 | mg/L | | 21-NOV-22 | R5895397 |
| Sulfur (S)-Dissolved | <0.05 | <W | 0.50 | mg/L | | 21-NOV-22 | R5895397 |
| Tellurium (Te)-Dissolved | <0.000005 | <W | 0.00020 | mg/L | | 21-NOV-22 | R5895397 |
| Thallium (Tl)-Dissolved | <0.000001 | <W | 0.000010 | mg/L | | 21-NOV-22 | R5895397 |
| Thorium (Th)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Tin (Sn)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.00030 | mg/L | | 21-NOV-22 | R5895397 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.00010 | mg/L | | 21-NOV-22 | R5895397 |
| Uranium (U)-Dissolved | <0.0000005 | <W | 0.000010 | mg/L | | 21-NOV-22 | R5895397 |
| Vanadium (V)-Dissolved | <0.00002 | <W | 0.00050 | mg/L | | 21-NOV-22 | R5895397 |
| Zinc (Zn)-Dissolved | 0.0002 | <DL | 0.0010 | mg/L | | 21-NOV-22 | R5895397 |
| Zirconium (Zr)-Dissolved | <0.000004 | <W | 0.00020 | mg/L | | 21-NOV-22 | R5895397 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 18-NOV-22 | R5896456 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 18-NOV-22 | 23-NOV-22 | R5896502 |
| Oil and Grease, Total | 1.2 | | 1.0 | mg/L | 21-NOV-22 | 21-NOV-22 | R5895976 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------|-----------------------|-----------|--|
| Matrix Spike | Ammonia, Total (as N) | MS-B | L2740657-10, -11, -12, -5, -6, -7, -8, -9 |
| Matrix Spike | Total Organic Carbon | MS-B | L2740657-1, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Total Organic Carbon | MS-B | L2740657-10, -11, -12 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|--|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|----------|---|--|
| ACY-MISA-TB | Effluent | Acidity (as CaCO ₃) | APHA 2310 B-POTENTIOMETRIC TITRATION |
| Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample. | | | |
| ALK-MISA-TB | Effluent | Alkalinity, Total (as CaCO ₃) | APHA 2320 B-Auto-Pot. Titration |
| This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. | | | |
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
| All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation. | | | |
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
| This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis. | | | |
| CN-T-MISA-CFA-WT | Effluent | Total Cyanide by CFA | ISO 14403-2:2012 (modified) |
| This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. | | | |
| Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero. | | | |
| CN-WAD-MISA-CFA-WT | Effluent | Weak Acid Dissociable Cyanide by CFA | APHA 4500-CN CYANIDE (modified) |
| This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis. | | | |
| COD-TB | Water | Chemical Oxygen Demand | APHA 5220D |
| This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method. | | | |
| COLOUR-TB | Water | Colour, True | APHA 2120 C |
| True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard. | | | |
| DO-CLIENT-TB | Water | Dissolved Oxygen, Client Supplied | Result supplied by Client |
| DOC-WT | Effluent | Dissolved Organic Carbon for MISA | APHA 5310 B-Instrumental |
| EC-MISA-TB | Effluent | Conductivity (EC) | APHA 2510 B-ELECTRODE |
| This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode. | | | |
| F-IC-N-TB | Water | Fluoride in Water by IC | EPA 300.1 (mod) |

Reference Information

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

| | | | |
|------------------|----------|----------------------------------|-------------|
| HARDNESS-CALC-TB | Effluent | Hardness (as CaCO ₃) | CALCULATION |
|------------------|----------|----------------------------------|-------------|

| | | | |
|-----------|----------|---------------------------------|-------------|
| HG-DIS-WT | Effluent | Mercury (Hg)-Dissolved for MISA | SW846 7470A |
|-----------|----------|---------------------------------|-------------|

| | | | |
|-----------|----------|-----------------------------|-------------|
| HG-TOT-WT | Effluent | Mercury (Hg)-Total for MISA | SW846 7470A |
|-----------|----------|-----------------------------|-------------|

| | | | |
|------------------|----------|--|-----------|
| MET-D-MISA-MS-WT | Effluent | Diss. Metals in Effluent by ICPMS (MISA) | EPA 200.8 |
|------------------|----------|--|-----------|

The concentration of metals determined on an filtered effluent sample for the MISA regulation. The samples are analyzed directly (undigested) by ICP-MS.

| | | | |
|------------------|----------|-----------------------|-----------|
| MET-T-MISA-MS-WT | Effluent | Total Metals by ICPMS | EPA 200.8 |
|------------------|----------|-----------------------|-----------|

The concentration of metals determined on an unfiltered effluent sample for the MISA regulation. The samples are digested in acid and analyzed by ICP-MS.

| | | | |
|---------------|----------|------------------------------|--|
| NH3-MISA-F-TB | Effluent | Ammonia by Discrete Analyzer | catnr 157/158 062217/99321057 (modified) |
|---------------|----------|------------------------------|--|

Ammonia is determined by Flow-injection analysis with fluorescence detection

| | | | |
|-------------------|----------|--------------------|-------------|
| NH3-UNION-CALC-TB | Effluent | Un-ionized ammonia | Calculation |
|-------------------|----------|--------------------|-------------|

| | | | |
|----------------|----------|------------------------|-----------------|
| NO2-MISA-IC-TB | Effluent | Nitrite in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|----------------|----------|------------------------|-----------------|
| NO3-MISA-IC-TB | Effluent | Nitrate in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|------------|----------|--------------------------------|--------------------------------|
| OGG-TOT-WT | Effluent | Oil and Grease, Total for MISA | APHA 5520 B-Hexane Gravimetric |
|------------|----------|--------------------------------|--------------------------------|

| | | | |
|--------------|-------|----|---------------------------|
| PH-CLIENT-TB | Water | pH | Result supplied by Client |
|--------------|-------|----|---------------------------|

| | | | |
|------------|----------|----|-----------------------|
| PH-MISA-TB | Effluent | pH | APHA 4500-H-ELECTRODE |
|------------|----------|----|-----------------------|

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

| | | | |
|---------------|-------|--------------------------|--------------------------------|
| PO4-DO-COL-TB | Water | Dissolved Orthophosphate | APHA 4500-P B, F, G (modified) |
|---------------|-------|--------------------------|--------------------------------|

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

| | | | |
|--------------------|-------|------------|-------------|
| RADIO-RADIUM226-SR | Water | Radium 226 | CANMET 1986 |
|--------------------|-------|------------|-------------|

| | | | |
|----------------|----------|------------------------|-----------------|
| SO4-MISA-IC-TB | Effluent | Sulfate in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|-------------|----------|------------------------|------------------------|
| TDS-MISA-TB | Effluent | Total Dissolved Solids | APHA 2540 C (modified) |
|-------------|----------|------------------------|------------------------|

Aqueous matrices are analyzed using gravimetry and evaporation

| | | | |
|----------------|-------|-------------|---------------------------|
| TEMP-CLIENT-TB | Water | Temperature | Result supplied by Client |
|----------------|-------|-------------|---------------------------|

| | | | |
|----------|-------|------------------------------|--------------------------------|
| TKN-F-TB | Water | TKN in Water by Fluorescence | catnr 157/158, 062818/99334821 |
|----------|-------|------------------------------|--------------------------------|

Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection

| | | | |
|--------|-------|----------------------|------------|
| TOC-WT | Water | Total Organic Carbon | APHA 5310B |
|--------|-------|----------------------|------------|

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

| | | | |
|-------------|----------|------------------------|------------------------|
| TSS-MISA-TB | Effluent | Total Suspended Solids | APHA 2540 D (modified) |
|-------------|----------|------------------------|------------------------|

Reference Information

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB Water Turbidity APHA 2130 B-Nephelometer

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| SR | Saskatchewan Research Council - Saskatoon, Saskatchewan, Can |
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| BOD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5896456 | | | | | | | |
| WG3773216-3 | DUP | L2740657-11 | | | | | | |
| Biochemical Oxygen Demand | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 30 | 18-NOV-22 |
| WG3773216-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 96.5 | | % | | 85-115 | 18-NOV-22 |
| WG3773216-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 18-NOV-22 |
| CL-L-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5895058 | | | | | | | |
| WG3773264-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 100.5 | | % | | 90-110 | 19-NOV-22 |
| WG3773264-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 19-NOV-22 |
| COD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5895176 | | | | | | | |
| WG3773209-3 | DUP | L2740461-1 | | | | | | |
| Chemical Oxygen Demand | | 43 | 45 | | mg/L | 2.8 | 20 | 21-NOV-22 |
| WG3773209-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 105.8 | | % | | 85-115 | 21-NOV-22 |
| WG3773209-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 21-NOV-22 |
| WG3773209-4 | MS | L2740461-2 | | | | | | |
| Chemical Oxygen Demand | | | 96.8 | | % | | 75-125 | 21-NOV-22 |
| Batch | R5896502 | | | | | | | |
| WG3773211-3 | DUP | L2740657-9 | | | | | | |
| Chemical Oxygen Demand | | 61 | 64 | | mg/L | 5.5 | 20 | 23-NOV-22 |
| WG3773211-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 107.8 | | % | | 85-115 | 23-NOV-22 |
| WG3773211-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 23-NOV-22 |
| WG3773211-4 | MS | L2740657-10 | | | | | | |
| Chemical Oxygen Demand | | | 96.4 | | % | | 75-125 | 23-NOV-22 |
| COLOUR-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5894556 | | | | | | | |
| WG3773260-2 | LCS | | | | | | | |
| Color, True | | | 104.5 | | % | | 85-115 | 18-NOV-22 |
| WG3773260-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 18-NOV-22 |



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| F-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5895058 | | | | | | | |
| WG3773264-2 | LCS | | | | | | | |
| Fluoride (F) | | | 104.6 | | % | | 90-110 | 19-NOV-22 |
| WG3773264-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 19-NOV-22 |
| PO4-DO-COL-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5897360 | | | | | | | |
| WG3773261-3 | DUP | L2740657-1 | | | | | | |
| Orthophosphate-Dissolved (as P) | | 0.0041 | 0.0037 | | mg/L | 9.0 | 20 | 23-NOV-22 |
| WG3773261-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 98.1 | | % | | 80-120 | 23-NOV-22 |
| WG3773261-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0010 | | mg/L | | 0.001 | 23-NOV-22 |
| WG3773261-4 | MS | L2740657-2 | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 111.6 | | % | | 70-130 | 23-NOV-22 |
| TKN-F-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5897126 | | | | | | | |
| WG3773206-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 112.3 | | % | | 75-125 | 22-NOV-22 |
| WG3773206-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 22-NOV-22 |
| WG3773206-4 | MS | L2740461-2 | | | | | | |
| Total Kjeldahl Nitrogen | | | 108.2 | | % | | 70-130 | 22-NOV-22 |
| TOC-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5897641 | | | | | | | |
| WG3773838-3 | DUP | WG3773838-5 | | | | | | |
| Total Organic Carbon | | 9.14 | 9.60 | | mg/L | 4.8 | 20 | 24-NOV-22 |
| WG3773838-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 100.6 | | % | | 80-120 | 24-NOV-22 |
| WG3773838-1 | MB | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 24-NOV-22 |
| WG3773838-4 | MS | WG3773838-5 | | | | | | |
| Total Organic Carbon | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Batch | R5899037 | | | | | | | |
| WG3774051-3 | DUP | L2740657-10 | | | | | | |
| Total Organic Carbon | | 16.1 | 16.7 | | mg/L | 3.4 | 20 | 28-NOV-22 |
| WG3774051-2 | LCS | | | | | | | |
| Total Organic Carbon | | | 93.5 | | % | | 80-120 | 28-NOV-22 |



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|--------------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| TOC-WT | | Water | | | | | | |
| Batch | R5899037 | | | | | | | |
| WG3774051-1 MB | | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 28-NOV-22 |
| WG3774051-4 MS | L2740657-10 | | | | | | | |
| Total Organic Carbon | | | N/A | MS-B | % | | - | 28-NOV-22 |
| TURBIDITY-TB | | Water | | | | | | |
| Batch | R5894199 | | | | | | | |
| WG3773254-3 DUP | L2740657-9 | | | | | | | |
| Turbidity | | 3.77 | 3.83 | | NTU | 1.6 | 15 | 18-NOV-22 |
| WG3773254-2 LCS | | | | | | | | |
| Turbidity | | | 97.0 | | % | | 85-115 | 18-NOV-22 |
| WG3773254-1 MB | | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 18-NOV-22 |
| ACY-MISA-TB | | Effluent | | | | | | |
| Batch | R5895821 | | | | | | | |
| WG3773258-3 DUP | L2740650-2 | | | | | | | |
| Acidity (as CaCO3) | | 5.2 | 5.2 | | mg/L | 1.6 | 20 | 19-NOV-22 |
| WG3773258-2 LCS | | | | | | | | |
| Acidity (as CaCO3) | | | 97.4 | | % | | 85-115 | 19-NOV-22 |
| WG3773258-1 MB | | | | | | | | |
| Acidity (as CaCO3) | | | 1.8 | | mg/L | | 3 | 19-NOV-22 |
| ALK-MISA-TB | | Effluent | | | | | | |
| Batch | R5894583 | | | | | | | |
| WG3773255-3 DUP | L2740650-1 | | | | | | | |
| Alkalinity, Total (as CaCO3) | | 54.6 | 54.6 | | mg/L | 0.2 | 20 | 18-NOV-22 |
| Alkalinity, Phenolphthalein | | <0.2 | <0.2 | RPD-NA | mg/L | N/A | 25 | 18-NOV-22 |
| WG3773255-2 LCS | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 101.9 | | % | | 85-115 | 18-NOV-22 |
| WG3773255-1 MB | | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | <0.2 | | mg/L | | 2 | 18-NOV-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 18-NOV-22 |
| CN-FREE-MISA-CFA-WT | | Effluent | | | | | | |
| Batch | R5896437 | | | | | | | |
| WG3773506-3 DUP | L2740588-1 | | | | | | | |
| Cyanide, Free | | 0.0010 | 0.0008 | RPD-NA | mg/L | N/A | 20 | 22-NOV-22 |
| WG3773506-2 LCS | | | | | | | | |
| Cyanide, Free | | | 100.6 | | % | | 80-120 | 22-NOV-22 |
| WG3773506-1 MB | | | | | | | | |



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------------------|--------|------------|---------|-----------|-------|-----|--------|-----------|
| CN-FREE-MISA-CFA-WT Effluent | | | | | | | | |
| Batch R5896437 | | | | | | | | |
| WG3773506-1 | MB | | | | | | | |
| Cyanide, Free | | | <0.0001 | | mg/L | | 0.002 | 22-NOV-22 |
| WG3773506-4 | MS | L2740588-1 | | | | | | |
| Cyanide, Free | | | 108.7 | | % | | 75-125 | 22-NOV-22 |
| CN-T-MISA-CFA-WT Effluent | | | | | | | | |
| Batch R5896437 | | | | | | | | |
| WG3773506-3 | DUP | L2740588-1 | | | | | | |
| Cyanide, Total | | 0.0016 | 0.0006 | RPD-NA | mg/L | N/A | 20 | 22-NOV-22 |
| WG3773506-2 | LCS | | | | | | | |
| Cyanide, Total | | | 94.9 | | % | | 80-120 | 22-NOV-22 |
| WG3773506-1 | MB | | | | | | | |
| Cyanide, Total | | | 0.0002 | | mg/L | | 0.002 | 22-NOV-22 |
| WG3773506-4 | MS | L2740588-1 | | | | | | |
| Cyanide, Total | | | 86.8 | | % | | 75-125 | 22-NOV-22 |
| CN-WAD-MISA-CFA-WT Effluent | | | | | | | | |
| Batch R5896437 | | | | | | | | |
| WG3773506-3 | DUP | L2740588-1 | | | | | | |
| Cyanide, Weak Acid Diss | | 0.0009 | 0.0005 | RPD-NA | mg/L | N/A | 20 | 22-NOV-22 |
| WG3773506-2 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 112.9 | | % | | 80-120 | 22-NOV-22 |
| WG3773506-1 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 22-NOV-22 |
| WG3773506-4 | MS | L2740588-1 | | | | | | |
| Cyanide, Weak Acid Diss | | | 111.4 | | % | | 75-125 | 22-NOV-22 |
| DOC-WT Effluent | | | | | | | | |
| Batch R5895376 | | | | | | | | |
| WG3773332-3 | DUP | L2740124-1 | | | | | | |
| Dissolved Organic Carbon | | 5.66 | 5.88 | | mg/L | 3.7 | 25 | 21-NOV-22 |
| WG3773332-2 | LCS | | | | | | | |
| Dissolved Organic Carbon | | | 102.9 | | % | | 70-130 | 21-NOV-22 |
| WG3773332-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 21-NOV-22 |
| EC-MISA-TB Effluent | | | | | | | | |
| Batch R5894583 | | | | | | | | |
| WG3773255-3 | DUP | L2740650-1 | | | | | | |
| Conductivity (EC) | | 1620 | 1630 | | uS/cm | 0.6 | 10 | 18-NOV-22 |
| WG3773255-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|------------|---------------------|-----------|-----------|-------|-----|----------|-----------|
| EC-MISA-TB | | Effluent | | | | | | |
| Batch R5894583 | | | | | | | | |
| WG3773255-2 | LCS | | | | | | | |
| Conductivity (EC) | | | 97.5 | | % | | 90-110 | 18-NOV-22 |
| WG3773255-1 | MB | | | | | | | |
| Conductivity (EC) | | | <0.2 | | uS/cm | | 2 | 18-NOV-22 |
| HG-DIS-WT | | Effluent | | | | | | |
| Batch R5895577 | | | | | | | | |
| WG3773586-3 | DUP | L2740657-1 | | | | | | |
| Mercury (Hg)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 22-NOV-22 |
| WG3773586-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 101.0 | | % | | 80-120 | 22-NOV-22 |
| WG3773586-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.000005 | 22-NOV-22 |
| WG3773586-4 | MS | L2740657-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 95.5 | | % | | 70-130 | 22-NOV-22 |
| HG-TOT-WT | | Effluent | | | | | | |
| Batch R5895036 | | | | | | | | |
| WG3773445-3 | DUP | L2740201-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 21-NOV-22 |
| WG3773445-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 103.0 | | % | | 80-120 | 21-NOV-22 |
| WG3773445-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.000005 | 21-NOV-22 |
| WG3773445-4 | MS | L2740650-1 | | | | | | |
| Mercury (Hg)-Total | | | 100.7 | | % | | 70-130 | 21-NOV-22 |
| MET-D-MISA-MS-WT | | Effluent | | | | | | |
| Batch R5895397 | | | | | | | | |
| WG3773473-16 | DUP | WG3773473-15 | | | | | | |
| Aluminum (Al)-Dissolved | | 0.0140 | 0.0132 | | mg/L | 4.5 | 20 | 21-NOV-22 |
| Antimony (Sb)-Dissolved | | 0.000215 | 0.000220 | | mg/L | 1.4 | 20 | 21-NOV-22 |
| Arsenic (As)-Dissolved | | 0.000460 | 0.000455 | | mg/L | 0.6 | 20 | 21-NOV-22 |
| Barium (Ba)-Dissolved | | 0.0640 | 0.0639 | | mg/L | 0.3 | 20 | 21-NOV-22 |
| Beryllium (Be)-Dissolved | | 0.000004 | 0.000002 | RPD-NA | mg/L | N/A | 20 | 21-NOV-22 |
| Bismuth (Bi)-Dissolved | | 0.000015 | 0.000005 | RPD-NA | mg/L | N/A | 20 | 21-NOV-22 |
| Boron (B)-Dissolved | | 0.040 | 0.040 | | mg/L | 0.8 | 20 | 21-NOV-22 |
| Cadmium (Cd)-Dissolved | | 0.000824 | 0.000810 | | mg/L | 1.7 | 20 | 21-NOV-22 |
| Calcium (Ca)-Dissolved | | 143 | 144 | | mg/L | 0.6 | 20 | 21-NOV-22 |



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|---------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5895397 | | | | | | | |
| WG3773473-16 | DUP | WG3773473-15 | | | | | | |
| Cesium (Cs)-Dissolved | | 0.0000096 | 0.0000096 | RPD-NA | mg/L | N/A | 25 | 21-NOV-22 |
| Chromium (Cr)-Dissolved | | 0.00004 | 0.00002 | RPD-NA | mg/L | N/A | 20 | 21-NOV-22 |
| Cobalt (Co)-Dissolved | | 0.00714 | 0.00712 | | mg/L | 0.3 | 20 | 21-NOV-22 |
| Copper (Cu)-Dissolved | | 0.00310 | 0.00305 | | mg/L | 2.2 | 20 | 21-NOV-22 |
| Iron (Fe)-Dissolved | | 0.003 | 0.003 | RPD-NA | mg/L | N/A | 20 | 21-NOV-22 |
| Lead (Pb)-Dissolved | | 0.00004 | 0.00004 | RPD-NA | mg/L | N/A | 20 | 21-NOV-22 |
| Lithium (Li)-Dissolved | | 0.0334 | 0.0336 | | mg/L | 0.3 | 20 | 21-NOV-22 |
| Magnesium (Mg)-Dissolved | | 63.5 | 62.8 | | mg/L | 1.1 | 20 | 21-NOV-22 |
| Manganese (Mn)-Dissolved | | 0.345 | 0.342 | | mg/L | 0.8 | 20 | 21-NOV-22 |
| Molybdenum (Mo)-Dissolved | | 0.00409 | 0.00412 | | mg/L | 0.9 | 20 | 21-NOV-22 |
| Nickel (Ni)-Dissolved | | 0.0166 | 0.0165 | | mg/L | 0.9 | 20 | 21-NOV-22 |
| Phosphorus (P)-Dissolved | | 0.002 | <0.002 | RPD-NA | mg/L | N/A | 25 | 21-NOV-22 |
| Potassium (K)-Dissolved | | 13.7 | 13.4 | | mg/L | 2.4 | 20 | 21-NOV-22 |
| Rubidium (Rb)-Dissolved | | 0.0138 | 0.0138 | | mg/L | 0.3 | 25 | 21-NOV-22 |
| Selenium (Se)-Dissolved | | 0.000470 | 0.000444 | | mg/L | 5.7 | 20 | 21-NOV-22 |
| Silicon (Si)-Dissolved | | 5.29 | 5.34 | | mg/L | 1.0 | 25 | 21-NOV-22 |
| Silver (Ag)-Dissolved | | 0.0000020 | 0.0000025 | RPD-NA | mg/L | N/A | 20 | 21-NOV-22 |
| Sodium (Na)-Dissolved | | 14.2 | 14.1 | | mg/L | 0.6 | 20 | 21-NOV-22 |
| Strontium (Sr)-Dissolved | | 0.367 | 0.371 | | mg/L | 1.2 | 20 | 21-NOV-22 |
| Sulfur (S)-Dissolved | | 84.8 | 84.2 | | mg/L | 0.7 | 25 | 21-NOV-22 |
| Tellurium (Te)-Dissolved | | 0.000015 | 0.000015 | RPD-NA | mg/L | N/A | 25 | 21-NOV-22 |
| Thallium (Tl)-Dissolved | | 0.000039 | 0.000038 | | mg/L | 1.8 | 20 | 21-NOV-22 |
| Thorium (Th)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 25 | 21-NOV-22 |
| Tin (Sn)-Dissolved | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 21-NOV-22 |
| Titanium (Ti)-Dissolved | | 0.00008 | 0.00008 | RPD-NA | mg/L | N/A | 20 | 21-NOV-22 |
| Tungsten (W)-Dissolved | | 0.0349 | 0.0350 | | mg/L | 0.1 | 20 | 21-NOV-22 |
| Uranium (U)-Dissolved | | 0.0573 | 0.0573 | | mg/L | 0.1 | 20 | 21-NOV-22 |
| Vanadium (V)-Dissolved | | 0.00026 | 0.00026 | RPD-NA | mg/L | N/A | 20 | 21-NOV-22 |
| Zinc (Zn)-Dissolved | | 0.0058 | 0.0056 | | mg/L | 3.7 | 20 | 21-NOV-22 |
| Zirconium (Zr)-Dissolved | | 0.000148 | 0.000152 | RPD-NA | mg/L | N/A | 20 | 21-NOV-22 |
| WG3773473-13 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 0.0002 | | mg/L | | 0.005 | 21-NOV-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0001 | 21-NOV-22 |



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5895397 | | | | | | | |
| WG3773473-13 MB | | | | | | | | |
| Arsenic (As)-Dissolved | | | <0.000005 | | mg/L | | 0.0001 | 21-NOV-22 |
| Barium (Ba)-Dissolved | | | <0.00002 | | mg/L | | 0.0001 | 21-NOV-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 21-NOV-22 |
| Bismuth (Bi)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 21-NOV-22 |
| Boron (B)-Dissolved | | | <0.002 | | mg/L | | 0.01 | 21-NOV-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000002 | | mg/L | | 0.000005 | 21-NOV-22 |
| Calcium (Ca)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 21-NOV-22 |
| Cesium (Cs)-Dissolved | | | 0.0000002 | | mg/L | | 0.00001 | 21-NOV-22 |
| Chromium (Cr)-Dissolved | | | <0.00002 | | mg/L | | 0.0005 | 21-NOV-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 21-NOV-22 |
| Copper (Cu)-Dissolved | | | <0.00005 | | mg/L | | 0.0002 | 21-NOV-22 |
| Iron (Fe)-Dissolved | | | <0.001 | | mg/L | | 0.01 | 21-NOV-22 |
| Lead (Pb)-Dissolved | | | <0.00002 | | mg/L | | 0.00005 | 21-NOV-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.001 | 21-NOV-22 |
| Magnesium (Mg)-Dissolved | | | <0.0005 | | mg/L | | 0.005 | 21-NOV-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.0005 | 21-NOV-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 21-NOV-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.0005 | 21-NOV-22 |
| Phosphorus (P)-Dissolved | | | <0.002 | | mg/L | | 0.05 | 21-NOV-22 |
| Potassium (K)-Dissolved | | | <0.002 | | mg/L | | 0.05 | 21-NOV-22 |
| Rubidium (Rb)-Dissolved | | | <0.000002 | | mg/L | | 0.0002 | 21-NOV-22 |
| Selenium (Se)-Dissolved | | | <0.000002 | | mg/L | | 0.00005 | 21-NOV-22 |
| Silicon (Si)-Dissolved | | | <0.002 | | mg/L | | 0.05 | 21-NOV-22 |
| Silver (Ag)-Dissolved | | | 0.0000005 | | mg/L | | 0.00005 | 21-NOV-22 |
| Sodium (Na)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 21-NOV-22 |
| Strontium (Sr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 21-NOV-22 |
| Sulfur (S)-Dissolved | | | <0.05 | | mg/L | | 0.5 | 21-NOV-22 |
| Tellurium (Te)-Dissolved | | | <0.000005 | | mg/L | | 0.0002 | 21-NOV-22 |
| Thallium (Tl)-Dissolved | | | <0.000001 | | mg/L | | 0.00001 | 21-NOV-22 |
| Thorium (Th)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 21-NOV-22 |
| Tin (Sn)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 21-NOV-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.0003 | 21-NOV-22 |
| Tungsten (W)-Dissolved | | | 0.000048 | | mg/L | | 0.0001 | 21-NOV-22 |



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON POW 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|--------|--------------------|------------|-----------|-------|-----|---------|-----------|
| MET-D-MISA-MS-WT | | Effluent | | | | | | |
| Batch R5895397 | | | | | | | | |
| WG3773473-13 MB | | | | | | | | |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 21-NOV-22 |
| Vanadium (V)-Dissolved | | | <0.00002 | | mg/L | | 0.0005 | 21-NOV-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.001 | 21-NOV-22 |
| Zirconium (Zr)-Dissolved | | | <0.000004 | | mg/L | | 0.0002 | 21-NOV-22 |
| Batch R5897131 | | | | | | | | |
| WG3773920-4 DUP | | WG3773920-3 | | | | | | |
| Aluminum (Al)-Dissolved | | 0.0102 | 0.0118 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Antimony (Sb)-Dissolved | | 0.0136 | 0.0132 | | mg/L | 3.1 | 20 | 24-NOV-22 |
| Arsenic (As)-Dissolved | | 0.00185 | 0.00193 | | mg/L | 4.3 | 20 | 24-NOV-22 |
| Barium (Ba)-Dissolved | | 0.0352 | 0.0357 | | mg/L | 1.3 | 20 | 24-NOV-22 |
| Beryllium (Be)-Dissolved | | 0.000006 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Bismuth (Bi)-Dissolved | | 0.000015 | 0.000010 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Boron (B)-Dissolved | | 0.094 | 0.088 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Cadmium (Cd)-Dissolved | | 0.000161 | 0.000176 | | mg/L | 8.7 | 20 | 24-NOV-22 |
| Calcium (Ca)-Dissolved | | 190 | 177 | | mg/L | 7.1 | 20 | 24-NOV-22 |
| Cesium (Cs)-Dissolved | | 0.000319 | 0.000294 | | mg/L | 7.9 | 25 | 24-NOV-22 |
| Chromium (Cr)-Dissolved | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Cobalt (Co)-Dissolved | | 0.00111 | 0.00122 | | mg/L | 8.7 | 20 | 24-NOV-22 |
| Copper (Cu)-Dissolved | | 0.0140 | 0.0138 | | mg/L | 1.0 | 20 | 24-NOV-22 |
| Iron (Fe)-Dissolved | | <0.001 | <0.001 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Lead (Pb)-Dissolved | | 0.00018 | 0.00020 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Lithium (Li)-Dissolved | | 0.0176 | 0.0146 | | mg/L | 19 | 20 | 24-NOV-22 |
| Magnesium (Mg)-Dissolved | | 25.2 | 26.8 | | mg/L | 6.3 | 20 | 24-NOV-22 |
| Manganese (Mn)-Dissolved | | 0.0314 | 0.0333 | | mg/L | 6.0 | 20 | 24-NOV-22 |
| Molybdenum (Mo)-Dissolved | | 0.0135 | 0.0128 | | mg/L | 5.1 | 20 | 24-NOV-22 |
| Nickel (Ni)-Dissolved | | 0.00310 | 0.00206 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Phosphorus (P)-Dissolved | | <0.002 | <0.002 | RPD-NA | mg/L | N/A | 25 | 24-NOV-22 |
| Potassium (K)-Dissolved | | 49.9 | 54.1 | | mg/L | 8.1 | 20 | 24-NOV-22 |
| Rubidium (Rb)-Dissolved | | 0.0251 | 0.0269 | | mg/L | 7.2 | 25 | 24-NOV-22 |
| Selenium (Se)-Dissolved | | 0.00167 | 0.00173 | | mg/L | 3.6 | 20 | 24-NOV-22 |
| Silicon (Si)-Dissolved | | 0.992 | 1.01 | | mg/L | 2.2 | 25 | 24-NOV-22 |
| Silver (Ag)-Dissolved | | 0.0000075 | 0.0000060 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Sodium (Na)-Dissolved | | 91.6 | 97.6 | | mg/L | 6.4 | 20 | 24-NOV-22 |



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5897131 | | | | | | | |
| WG3773920-4 | DUP | WG3773920-3 | | | | | | |
| Strontium (Sr)-Dissolved | | 0.830 | 0.802 | | mg/L | 3.4 | 20 | 24-NOV-22 |
| Sulfur (S)-Dissolved | | 237 | 236 | | mg/L | 0.5 | 25 | 24-NOV-22 |
| Tellurium (Te)-Dissolved | | 0.000060 | 0.000015 | RPD-NA | mg/L | N/A | 25 | 24-NOV-22 |
| Thallium (Tl)-Dissolved | | 0.000038 | 0.000030 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Thorium (Th)-Dissolved | | 0.000018 | 0.000006 | RPD-NA | mg/L | N/A | 25 | 24-NOV-22 |
| Tin (Sn)-Dissolved | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Titanium (Ti)-Dissolved | | 0.00008 | 0.00020 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Tungsten (W)-Dissolved | | 0.000228 | 0.000230 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Uranium (U)-Dissolved | | 0.00169 | 0.00163 | | mg/L | 3.8 | 20 | 24-NOV-22 |
| Vanadium (V)-Dissolved | | 0.00008 | 0.00010 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Zinc (Zn)-Dissolved | | 0.0194 | 0.0186 | | mg/L | 4.1 | 20 | 24-NOV-22 |
| Zirconium (Zr)-Dissolved | | <0.000004 | <0.000004 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| WG3773920-1 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | 0.0004 | | mg/L | | 0.005 | 24-NOV-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0001 | 24-NOV-22 |
| Arsenic (As)-Dissolved | | | 0.000005 | | mg/L | | 0.0001 | 24-NOV-22 |
| Barium (Ba)-Dissolved | | | <0.00002 | | mg/L | | 0.0001 | 24-NOV-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 24-NOV-22 |
| Bismuth (Bi)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 24-NOV-22 |
| Boron (B)-Dissolved | | | <0.002 | | mg/L | | 0.01 | 24-NOV-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000002 | | mg/L | | 0.000005 | 24-NOV-22 |
| Calcium (Ca)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 24-NOV-22 |
| Cesium (Cs)-Dissolved | | | <0.0000002 | | mg/L | | 0.00001 | 24-NOV-22 |
| Chromium (Cr)-Dissolved | | | 0.00008 | | mg/L | | 0.0005 | 24-NOV-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 24-NOV-22 |
| Copper (Cu)-Dissolved | | | <0.00005 | | mg/L | | 0.0002 | 24-NOV-22 |
| Iron (Fe)-Dissolved | | | <0.001 | | mg/L | | 0.01 | 24-NOV-22 |
| Lead (Pb)-Dissolved | | | <0.00002 | | mg/L | | 0.00005 | 24-NOV-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.001 | 24-NOV-22 |
| Magnesium (Mg)-Dissolved | | | <0.0005 | | mg/L | | 0.005 | 24-NOV-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.0005 | 24-NOV-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 24-NOV-22 |
| Nickel (Ni)-Dissolved | | | 0.00006 | | mg/L | | 0.0005 | 24-NOV-22 |



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|-----------------|--------------------|-----------|-------|-----|---------|-----------|
| MET-D-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5897131 | | | | | | | |
| WG3773920-1 | MB | | | | | | | |
| Phosphorus (P)-Dissolved | | | <0.002 | | mg/L | | 0.05 | 24-NOV-22 |
| Potassium (K)-Dissolved | | | 0.004 | | mg/L | | 0.05 | 24-NOV-22 |
| Rubidium (Rb)-Dissolved | | | 0.000002 | | mg/L | | 0.0002 | 24-NOV-22 |
| Selenium (Se)-Dissolved | | | <0.000002 | | mg/L | | 0.00005 | 24-NOV-22 |
| Silicon (Si)-Dissolved | | | <0.002 | | mg/L | | 0.05 | 24-NOV-22 |
| Silver (Ag)-Dissolved | | | <0.0000005 | | mg/L | | 0.00005 | 24-NOV-22 |
| Sodium (Na)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 24-NOV-22 |
| Strontium (Sr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 24-NOV-22 |
| Sulfur (S)-Dissolved | | | <0.05 | | mg/L | | 0.5 | 24-NOV-22 |
| Tellurium (Te)-Dissolved | | | <0.000005 | | mg/L | | 0.0002 | 24-NOV-22 |
| Thallium (Tl)-Dissolved | | | <0.000001 | | mg/L | | 0.00001 | 24-NOV-22 |
| Thorium (Th)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 24-NOV-22 |
| Tin (Sn)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 24-NOV-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.0003 | 24-NOV-22 |
| Tungsten (W)-Dissolved | | | <0.000002 | | mg/L | | 0.0001 | 24-NOV-22 |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 24-NOV-22 |
| Vanadium (V)-Dissolved | | | <0.00002 | | mg/L | | 0.0005 | 24-NOV-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.001 | 24-NOV-22 |
| Zirconium (Zr)-Dissolved | | | <0.000004 | | mg/L | | 0.0002 | 24-NOV-22 |
| MET-T-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5897016 | | | | | | | |
| WG3773555-4 | DUP | | WG3773555-3 | | | | | |
| Aluminum (Al)-Total | | 0.0680 | 0.0550 | | mg/L | 21 | 25 | 23-NOV-22 |
| Antimony (Sb)-Total | | 0.000160 | 0.000155 | | mg/L | 4.6 | 25 | 23-NOV-22 |
| Arsenic (As)-Total | | 0.000180 | 0.000195 | | mg/L | 7.5 | 25 | 23-NOV-22 |
| Barium (Ba)-Total | | 0.0253 | 0.0253 | | mg/L | 0.1 | 25 | 23-NOV-22 |
| Beryllium (Be)-Total | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 25 | 23-NOV-22 |
| Bismuth (Bi)-Total | | 0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 25 | 23-NOV-22 |
| Boron (B)-Total | | 0.080 | 0.082 | | mg/L | 0.6 | 25 | 23-NOV-22 |
| Cadmium (Cd)-Total | | 0.0000258 | 0.0000232 | | mg/L | 11 | 25 | 23-NOV-22 |
| Calcium (Ca)-Total | | 89.3 | 90.8 | | mg/L | 1.7 | 25 | 23-NOV-22 |
| Cesium (Cs)-Total | | 0.000670 | 0.000665 | | mg/L | 0.7 | 25 | 23-NOV-22 |
| Chromium (Cr)-Total | | 0.00044 | 0.00068 | RPD-NA | mg/L | N/A | 25 | 23-NOV-22 |



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|------------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5897016 | | | | | | | |
| WG3773555-4 | DUP | WG3773555-3 | | | | | | |
| Cobalt (Co)-Total | | 0.000754 | 0.000748 | | mg/L | 0.6 | 25 | 23-NOV-22 |
| Copper (Cu)-Total | | 0.00315 | 0.00310 | | mg/L | 1.3 | 25 | 23-NOV-22 |
| Iron (Fe)-Total | | 0.126 | 0.123 | | mg/L | 2.6 | 25 | 23-NOV-22 |
| Lead (Pb)-Total | | 0.00004 | 0.00004 | RPD-NA | mg/L | N/A | 25 | 23-NOV-22 |
| Lithium (Li)-Total | | 0.0022 | 0.0022 | | mg/L | 4.6 | 25 | 23-NOV-22 |
| Magnesium (Mg)-Total | | 25.6 | 25.3 | | mg/L | 1.2 | 25 | 23-NOV-22 |
| Manganese (Mn)-Total | | 0.215 | 0.211 | | mg/L | 1.9 | 25 | 23-NOV-22 |
| Molybdenum (Mo)-Total | | 0.0538 | 0.0528 | | mg/L | 2.0 | 25 | 23-NOV-22 |
| Nickel (Ni)-Total | | 0.0254 | 0.0255 | | mg/L | 0.4 | 25 | 23-NOV-22 |
| Phosphorus (P)-Total | | 0.008 | <0.002 | RPD-NA | mg/L | N/A | 25 | 23-NOV-22 |
| Potassium (K)-Total | | 20.9 | 20.6 | | mg/L | 1.5 | 25 | 23-NOV-22 |
| Rubidium (Rb)-Total | | 0.0134 | 0.0133 | | mg/L | 1.0 | 25 | 23-NOV-22 |
| Selenium (Se)-Total | | 0.000434 | 0.000376 | | mg/L | 14 | 25 | 23-NOV-22 |
| Silicon (Si)-Total | | 7.15 | 7.19 | | mg/L | 0.5 | 25 | 23-NOV-22 |
| Silver (Ag)-Total | | <0.0000005 | <0.0000005 | RPD-NA | mg/L | N/A | 25 | 23-NOV-22 |
| Sodium (Na)-Total | | 148 | 148 | | mg/L | 0.5 | 25 | 23-NOV-22 |
| Strontium (Sr)-Total | | 0.283 | 0.280 | | mg/L | 0.9 | 25 | 23-NOV-22 |
| Sulfur (S)-Total | | 77.0 | 77.4 | | mg/L | 0.5 | 25 | 23-NOV-22 |
| Tellurium (Te)-Total | | <0.000005 | 0.000010 | RPD-NA | mg/L | N/A | 25 | 23-NOV-22 |
| Thallium (Tl)-Total | | 0.000040 | 0.000038 | | mg/L | 5.7 | 25 | 23-NOV-22 |
| Thorium (Th)-Total | | 0.000006 | 0.000004 | RPD-NA | mg/L | N/A | 25 | 23-NOV-22 |
| Tin (Sn)-Total | | 0.00006 | 0.00006 | RPD-NA | mg/L | N/A | 25 | 23-NOV-22 |
| Titanium (Ti)-Total | | 0.00044 | 0.00042 | | mg/L | 0.7 | 25 | 23-NOV-22 |
| Tungsten (W)-Total | | 0.00426 | 0.00420 | | mg/L | 1.4 | 25 | 23-NOV-22 |
| Uranium (U)-Total | | 0.00177 | 0.00182 | | mg/L | 2.9 | 25 | 23-NOV-22 |
| Vanadium (V)-Total | | 0.00042 | 0.00042 | RPD-NA | mg/L | N/A | 25 | 23-NOV-22 |
| Zinc (Zn)-Total | | 0.0006 | 0.0006 | RPD-NA | mg/L | N/A | 25 | 23-NOV-22 |
| Zirconium (Zr)-Total | | 0.000052 | 0.000052 | RPD-NA | mg/L | N/A | 25 | 23-NOV-22 |
| WG3773555-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | 0.0014 | | mg/L | | 0.005 | 23-NOV-22 |
| Antimony (Sb)-Total | | | 0.000005 | | mg/L | | 0.0001 | 23-NOV-22 |
| Arsenic (As)-Total | | | 0.000005 | | mg/L | | 0.0001 | 23-NOV-22 |
| Barium (Ba)-Total | | | <0.00002 | | mg/L | | 0.0001 | 23-NOV-22 |



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-MS-WT | | Effluent | | | | | | |
| Batch | R5897016 | | | | | | | |
| WG3773555-1 MB | | | | | | | | |
| Beryllium (Be)-Total | | | <0.000002 | | mg/L | | 0.0001 | 23-NOV-22 |
| Bismuth (Bi)-Total | | | <0.000005 | | mg/L | | 0.00005 | 23-NOV-22 |
| Boron (B)-Total | | | <0.002 | | mg/L | | 0.01 | 23-NOV-22 |
| Cadmium (Cd)-Total | | | 0.0000004 | | mg/L | | 0.000005 | 23-NOV-22 |
| Calcium (Ca)-Total | | | <0.005 | | mg/L | | 0.05 | 23-NOV-22 |
| Cesium (Cs)-Total | | | <0.0000002 | | mg/L | | 0.00001 | 23-NOV-22 |
| Chromium (Cr)-Total | | | 0.00024 | | mg/L | | 0.0005 | 23-NOV-22 |
| Cobalt (Co)-Total | | | <0.000002 | | mg/L | | 0.0001 | 23-NOV-22 |
| Copper (Cu)-Total | | | <0.00005 | | mg/L | | 0.0005 | 23-NOV-22 |
| Iron (Fe)-Total | | | <0.001 | | mg/L | | 0.01 | 23-NOV-22 |
| Lead (Pb)-Total | | | <0.00002 | | mg/L | | 0.00005 | 23-NOV-22 |
| Lithium (Li)-Total | | | <0.0002 | | mg/L | | 0.001 | 23-NOV-22 |
| Magnesium (Mg)-Total | | | 0.0010 | | mg/L | | 0.005 | 23-NOV-22 |
| Manganese (Mn)-Total | | | <0.00002 | | mg/L | | 0.0005 | 23-NOV-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.00005 | 23-NOV-22 |
| Nickel (Ni)-Total | | | 0.00006 | | mg/L | | 0.0005 | 23-NOV-22 |
| Phosphorus (P)-Total | | | 0.006 | | mg/L | | 0.05 | 23-NOV-22 |
| Potassium (K)-Total | | | <0.002 | | mg/L | | 0.05 | 23-NOV-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 23-NOV-22 |
| Selenium (Se)-Total | | | 0.000002 | | mg/L | | 0.00005 | 23-NOV-22 |
| Silicon (Si)-Total | | | 0.032 | | mg/L | | 0.1 | 23-NOV-22 |
| Silver (Ag)-Total | | | 0.0000025 | | mg/L | | 0.00005 | 23-NOV-22 |
| Sodium (Na)-Total | | | <0.005 | | mg/L | | 0.05 | 23-NOV-22 |
| Strontium (Sr)-Total | | | 0.00003 | | mg/L | | 0.001 | 23-NOV-22 |
| Sulfur (S)-Total | | | <0.05 | | mg/L | | 0.5 | 23-NOV-22 |
| Tellurium (Te)-Total | | | 0.000095 | | mg/L | | 0.0002 | 23-NOV-22 |
| Thallium (Tl)-Total | | | <0.000001 | | mg/L | | 0.00001 | 23-NOV-22 |
| Thorium (Th)-Total | | | <0.000002 | | mg/L | | 0.0001 | 23-NOV-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.0001 | 23-NOV-22 |
| Titanium (Ti)-Total | | | <0.00002 | | mg/L | | 0.0003 | 23-NOV-22 |
| Tungsten (W)-Total | | | <0.000002 | | mg/L | | 0.0001 | 23-NOV-22 |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 23-NOV-22 |
| Vanadium (V)-Total | | | 0.00004 | | mg/L | | 0.0005 | 23-NOV-22 |



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------------|--------|-----------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-MS-WT Effluent | | | | | | | | |
| Batch R5897016 | | | | | | | | |
| WG3773555-1 MB | | | | | | | | |
| Zinc (Zn)-Total | | | <0.0002 | | mg/L | | 0.003 | 23-NOV-22 |
| Zirconium (Zr)-Total | | | <0.000004 | | mg/L | | 0.0002 | 23-NOV-22 |
| NH3-MISA-F-TB Effluent | | | | | | | | |
| Batch R5895719 | | | | | | | | |
| WG3773202-3 DUP L2740657-5 | | | | | | | | |
| Ammonia, Total (as N) | | 0.022 | 0.022 | | mg/L | 6.9 | 20 | 21-NOV-22 |
| WG3773200-2 LCS | | | | | | | | |
| Ammonia, Total (as N) | | | 93.9 | | % | | 85-115 | 21-NOV-22 |
| WG3773202-2 LCS | | | | | | | | |
| Ammonia, Total (as N) | | | 98.5 | | % | | 85-115 | 21-NOV-22 |
| WG3773200-1 MB | | | | | | | | |
| Ammonia, Total (as N) | | | <0.002 | | mg/L | | 0.005 | 21-NOV-22 |
| WG3773202-1 MB | | | | | | | | |
| Ammonia, Total (as N) | | | <0.002 | | mg/L | | 0.005 | 21-NOV-22 |
| WG3773200-4 MS L2740461-2 | | | | | | | | |
| Ammonia, Total (as N) | | | 103.5 | | % | | 75-125 | 21-NOV-22 |
| WG3773202-4 MS L2740657-6 | | | | | | | | |
| Ammonia, Total (as N) | | | N/A | MS-B | % | | - | 21-NOV-22 |
| NO2-MISA-IC-TB Effluent | | | | | | | | |
| Batch R5895058 | | | | | | | | |
| WG3773264-2 LCS | | | | | | | | |
| Nitrite (as N) | | | 101.1 | | % | | 90-110 | 19-NOV-22 |
| WG3773264-1 MB | | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 19-NOV-22 |
| NO3-MISA-IC-TB Effluent | | | | | | | | |
| Batch R5895058 | | | | | | | | |
| WG3773264-2 LCS | | | | | | | | |
| Nitrate (as N) | | | 99.9 | | % | | 90-110 | 19-NOV-22 |
| WG3773264-1 MB | | | | | | | | |
| Nitrate (as N) | | | <0.002 | | mg/L | | 0.02 | 19-NOV-22 |
| OGG-TOT-WT Effluent | | | | | | | | |
| Batch R5895976 | | | | | | | | |
| WG3773495-2 LCS | | | | | | | | |
| Oil and Grease, Total | | | 93.2 | | % | | 50-150 | 21-NOV-22 |
| WG3773495-1 MB | | | | | | | | |
| Oil and Grease, Total | | | 0.4 | | mg/L | | 1 | 21-NOV-22 |



Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|----------|-----------------|--------|-----------|-------|------|---------|-----------|
| PH-MISA-TB | | Effluent | | | | | | |
| Batch | R5894583 | | | | | | | |
| WG3773255-3 | DUP | L2740650-1 | | | | | | |
| pH | | 7.21 | 7.21 | J | pH | 0.00 | 0.2 | 18-NOV-22 |
| WG3773255-2 | LCS | | | | | | | |
| pH | | | 6.99 | | pH | | 6.9-7.1 | 18-NOV-22 |
| SO4-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5895058 | | | | | | | |
| WG3773264-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 101.5 | | % | | 90-110 | 19-NOV-22 |
| WG3773264-1 | MB | | | | | | | |
| Sulfate (SO4) | | | <0.05 | | mg/L | | 0.3 | 19-NOV-22 |
| TDS-MISA-TB | | Effluent | | | | | | |
| Batch | R5894236 | | | | | | | |
| WG3773084-3 | DUP | L2740657-11 | | | | | | |
| Total Dissolved Solids | | 274 | 276 | | mg/L | 1.1 | 20 | 17-NOV-22 |
| WG3773084-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 98.4 | | % | | 85-115 | 17-NOV-22 |
| WG3773084-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <2 | | mg/L | | 10 | 17-NOV-22 |
| Batch | R5895096 | | | | | | | |
| WG3773343-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 99.5 | | % | | 85-115 | 19-NOV-22 |
| WG3773343-1 | MB | | | | | | | |
| Total Dissolved Solids | | | 2 | | mg/L | | 10 | 19-NOV-22 |
| TSS-MISA-TB | | Effluent | | | | | | |
| Batch | R5894163 | | | | | | | |
| WG3773085-3 | DUP | L2740657-11 | | | | | | |
| Total Suspended Solids | | 3.0 | 3.5 | | mg/L | 6.1 | 20 | 17-NOV-22 |
| WG3773085-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 107.3 | | % | | 85-115 | 17-NOV-22 |
| WG3773085-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 17-NOV-22 |
| Batch | R5895057 | | | | | | | |
| WG3773344-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 104.0 | | % | | 85-115 | 19-NOV-22 |
| WG3773344-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 19-NOV-22 |

Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

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Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Colour, True | 1 | 11-NOV-22 10:25 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 2 | 11-NOV-22 10:50 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 3 | 11-NOV-22 12:00 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 4 | 11-NOV-22 12:00 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 5 | 11-NOV-22 12:55 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 6 | 11-NOV-22 13:10 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 7 | 11-NOV-22 13:35 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 8 | 11-NOV-22 14:10 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 9 | 11-NOV-22 16:00 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 10 | 11-NOV-22 16:10 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 11 | 11-NOV-22 16:40 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 12 | 12-NOV-22 12:00 | 18-NOV-22 14:00 | 3 | 6 | days | EHTR |
| Conductivity (EC) | 1 | 11-NOV-22 10:25 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 2 | 11-NOV-22 10:50 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 3 | 11-NOV-22 12:00 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 4 | 11-NOV-22 12:00 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 5 | 11-NOV-22 12:55 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 6 | 11-NOV-22 13:10 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 7 | 11-NOV-22 13:35 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 8 | 11-NOV-22 14:10 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 9 | 11-NOV-22 16:00 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 10 | 11-NOV-22 16:10 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 11 | 11-NOV-22 16:40 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 12 | 12-NOV-22 12:00 | 18-NOV-22 12:21 | 4 | 6 | days | EHTL |
| Turbidity | 1 | 11-NOV-22 10:25 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 2 | 11-NOV-22 10:50 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 3 | 11-NOV-22 12:00 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 4 | 11-NOV-22 12:00 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 5 | 11-NOV-22 12:55 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 6 | 11-NOV-22 13:10 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 7 | 11-NOV-22 13:35 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 8 | 11-NOV-22 14:10 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 9 | 11-NOV-22 16:00 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 10 | 11-NOV-22 16:10 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 11 | 11-NOV-22 16:40 | 18-NOV-22 14:00 | 3 | 7 | days | EHTR |
| | 12 | 12-NOV-22 12:00 | 18-NOV-22 14:00 | 3 | 6 | days | EHTR |
| pH | 1 | 11-NOV-22 10:25 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 2 | 11-NOV-22 10:50 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 3 | 11-NOV-22 12:00 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 4 | 11-NOV-22 12:00 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 5 | 11-NOV-22 12:55 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 6 | 11-NOV-22 13:10 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 7 | 11-NOV-22 13:35 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 8 | 11-NOV-22 14:10 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 9 | 11-NOV-22 16:00 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 10 | 11-NOV-22 16:10 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 11 | 11-NOV-22 16:40 | 18-NOV-22 12:21 | 4 | 7 | days | EHTR |
| | 12 | 12-NOV-22 12:00 | 18-NOV-22 12:21 | 4 | 6 | days | EHTL |

Leachable Anions & Nutrients

Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0
 Contact: Garnet Cornell

Page 17 of 18

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|--|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Leachable Anions & Nutrients | | | | | | | |
| Nitrate in Water by IC | | | | | | | |
| | 1 | 11-NOV-22 10:25 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 2 | 11-NOV-22 10:50 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 3 | 11-NOV-22 12:00 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 4 | 11-NOV-22 12:00 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 5 | 11-NOV-22 12:55 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 6 | 11-NOV-22 13:10 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 7 | 11-NOV-22 13:35 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 8 | 11-NOV-22 14:10 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 9 | 11-NOV-22 16:00 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 10 | 11-NOV-22 16:10 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 11 | 11-NOV-22 16:40 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 12 | 12-NOV-22 12:00 | 18-NOV-22 14:00 | 5 | 6 | days | EHT |
| Nitrite in Water by IC | | | | | | | |
| | 1 | 11-NOV-22 10:25 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 2 | 11-NOV-22 10:50 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 3 | 11-NOV-22 12:00 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 4 | 11-NOV-22 12:00 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 5 | 11-NOV-22 12:55 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 6 | 11-NOV-22 13:10 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 7 | 11-NOV-22 13:35 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 8 | 11-NOV-22 14:10 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 9 | 11-NOV-22 16:00 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 10 | 11-NOV-22 16:10 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 11 | 11-NOV-22 16:40 | 18-NOV-22 14:00 | 5 | 7 | days | EHTL |
| | 12 | 12-NOV-22 12:00 | 18-NOV-22 14:00 | 5 | 6 | days | EHT |
| Cyanides | | | | | | | |
| Free Cyanide by Continuous Flow Analyzer | | | | | | | |
| | 1 | 11-NOV-22 10:25 | 22-NOV-22 00:00 | 7 | 11 | days | EHT |
| | 2 | 11-NOV-22 10:50 | 22-NOV-22 00:00 | 7 | 11 | days | EHT |
| | 3 | 11-NOV-22 12:00 | 22-NOV-22 00:00 | 7 | 11 | days | EHT |
| | 4 | 11-NOV-22 12:00 | 22-NOV-22 00:00 | 7 | 11 | days | EHT |
| | 5 | 11-NOV-22 12:55 | 22-NOV-22 00:00 | 7 | 10 | days | EHT |
| | 6 | 11-NOV-22 13:10 | 22-NOV-22 00:00 | 7 | 10 | days | EHT |
| | 7 | 11-NOV-22 13:35 | 22-NOV-22 00:00 | 7 | 10 | days | EHT |
| | 8 | 11-NOV-22 14:10 | 22-NOV-22 00:00 | 7 | 10 | days | EHT |
| | 9 | 11-NOV-22 16:00 | 22-NOV-22 00:00 | 7 | 10 | days | EHT |
| | 10 | 11-NOV-22 16:10 | 22-NOV-22 00:00 | 7 | 10 | days | EHT |
| | 11 | 11-NOV-22 16:40 | 22-NOV-22 00:00 | 7 | 10 | days | EHT |
| | 12 | 12-NOV-22 12:00 | 22-NOV-22 00:00 | 7 | 10 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon for MISA | | | | | | | |
| | 1 | 11-NOV-22 10:25 | 18-NOV-22 00:00 | 3 | 7 | days | EHTR |
| | 2 | 11-NOV-22 10:50 | 18-NOV-22 00:00 | 3 | 7 | days | EHTR |
| | 3 | 11-NOV-22 12:00 | 18-NOV-22 00:00 | 3 | 7 | days | EHTR |
| | 4 | 11-NOV-22 12:00 | 18-NOV-22 00:00 | 3 | 7 | days | EHTR |
| | 5 | 11-NOV-22 12:55 | 18-NOV-22 00:00 | 3 | 6 | days | EHTR |
| | 6 | 11-NOV-22 13:10 | 18-NOV-22 00:00 | 3 | 6 | days | EHTR |
| | 7 | 11-NOV-22 13:35 | 18-NOV-22 00:00 | 3 | 6 | days | EHTR |
| | 8 | 11-NOV-22 14:10 | 18-NOV-22 00:00 | 3 | 6 | days | EHTR |
| | 9 | 11-NOV-22 16:00 | 18-NOV-22 00:00 | 3 | 6 | days | EHTR |
| | 10 | 11-NOV-22 16:10 | 18-NOV-22 00:00 | 3 | 6 | days | EHTR |

Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

Page 18 of 18

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon for MISA | | | | | | | |
| | 11 | 11-NOV-22 16:40 | 18-NOV-22 00:00 | 3 | 6 | days | EHTR |
| | 12 | 12-NOV-22 12:00 | 18-NOV-22 00:00 | 3 | 6 | days | EHTR |
| Metals | | | | | | | |
| Dissolved Orthophosphate | | | | | | | |
| | 7 | 11-NOV-22 13:35 | 23-NOV-22 16:00 | 7 | 12 | days | EHT |
| | 8 | 11-NOV-22 14:10 | 23-NOV-22 16:00 | 7 | 12 | days | EHT |
| | 9 | 11-NOV-22 16:00 | 23-NOV-22 16:00 | 7 | 12 | days | EHT |
| | 10 | 11-NOV-22 16:10 | 23-NOV-22 16:00 | 7 | 12 | days | EHT |
| | 11 | 11-NOV-22 16:40 | 23-NOV-22 16:00 | 7 | 12 | days | EHT |
| | 12 | 12-NOV-22 12:00 | 23-NOV-22 16:00 | 7 | 11 | days | EHT |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand (BOD) | | | | | | | |
| | 1 | 11-NOV-22 10:25 | 18-NOV-22 11:44 | 4 | 7 | days | EHTR |
| | 2 | 11-NOV-22 10:50 | 18-NOV-22 11:44 | 4 | 7 | days | EHTR |
| | 3 | 11-NOV-22 12:00 | 18-NOV-22 11:44 | 4 | 7 | days | EHTR |
| | 4 | 11-NOV-22 12:00 | 18-NOV-22 11:44 | 4 | 7 | days | EHTR |
| | 5 | 11-NOV-22 12:55 | 18-NOV-22 11:44 | 4 | 7 | days | EHTR |
| | 6 | 11-NOV-22 13:10 | 18-NOV-22 11:44 | 4 | 7 | days | EHTR |
| | 7 | 11-NOV-22 13:35 | 18-NOV-22 11:44 | 4 | 7 | days | EHTR |
| | 8 | 11-NOV-22 14:10 | 18-NOV-22 11:44 | 4 | 7 | days | EHTR |
| | 9 | 11-NOV-22 16:00 | 18-NOV-22 11:44 | 4 | 7 | days | EHTR |
| | 10 | 11-NOV-22 16:10 | 18-NOV-22 11:44 | 4 | 7 | days | EHTR |
| | 11 | 11-NOV-22 16:40 | 18-NOV-22 11:44 | 4 | 7 | days | EHTR |
| | 12 | 12-NOV-22 12:00 | 18-NOV-22 11:44 | 4 | 6 | days | EHTL |

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2740657 were received on 16-NOV-22 09:50.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

SRC Group # 2022-13971

Nov 25, 2022

ALS
Thunder Bay Analytical
1081 Barton Street
Thunder Bay, ON P7B 5N3
Attn: Christine Paradis

Date Samples Received: Nov-18-2022

Client P.O.: L2740657

All results have been reviewed and approved by a Qualified Person in accordance with the Saskatchewan Environmental Code, Corrective Action Plan Chapter, for the purposes of certifying a laboratory analysis

Results from Lab Section 4 approved by Philibert, Kelcey

- * Test methods and data are validated by the laboratory's Quality Assurance Program.
- * Routine methods follow recognized procedures from sources such as
 - * Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF
 - * Environment Canada
 - * US EPA
 - * CANMET
- * The results reported relate only to the test samples as provided by the client. Results apply to the sample as received, unless otherwise indicated.
- * Data marked as "by Client" has been provided by the client and may affect the validity of results.
- * Samples will be kept for 30 days after the final report is sent. Please contact the lab if you have any special requirements.
- * Additional information is available upon request.
- * Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

This is a final report.

SRC Group # 2022-13971

Nov 25, 2022

ALS, Thunder Bay Analytical

1081 Barton Street

Thunder Bay, ON P7B 5N3

Attn: Christine Paradis

Sample #: **2022047205**
Date Sampled: **Nov 11, 2022**
Sample Matrix: **WATER**
Description: **11/11/2022 SW20_SW_20221108 L2740657-5**

Client PO #: **L2740657**
Date Received: **Nov 18, 2022**

| Analyte | Units | Result | DL |
|----------------------|-------|--------|-------|
| Lab Section 4 | | | |
| Radium-226 | Bq/L | 0.008 | 0.005 |

The temperature of the cooler was 5.5 °C upon receipt.

SRC Group # 2022-13971

Nov 25, 2022

ALS, Thunder Bay Analytical

Sample #: **2022047206** Client PO #: **L2740657**
 Date Sampled: **Nov 11, 2022** Date Received: **Nov 18, 2022**
 Sample Matrix: **WATER**
 Description: **11/11/2022 SW22A_SW_20221108 L2740657-11**

| Analyte | Units | Result | DL |
|----------------------|-------|--------|-------|
| Lab Section 4 | | | |
| Radium-226 | Bq/L | <0.005 | 0.005 |

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 5.5 °C upon receipt.

SRC Group # 2022-13971

Nov 25, 2022

ALS, Thunder Bay Analytical

Analyte Methods

| Name | Units | Method |
|-------------|--------------|---------------|
| Radium-226 | Bq/L | Rad-105 |

This report was generated for samples included in SRC Group # 2022-13971

Quality Control Report

Christine Paradis
 ALS
 Thunder Bay Analytical
 1081 Barton Street
 Thunder Bay, ON P7B 5N3

Reference Materials and Standards:

A reference material of known concentration is used whenever possible as either a control sample or control standard and analyzed with each batch of samples. These "QC" results are used to assess the performance of the method and must be within clearly defined limits; otherwise corrective action is required.

| QC Analysis | Units | Target Value | Obtained Value |
|-------------|-------|--------------|----------------|
| Radium-226 | Bq/L | 19.8 | 19.3 |
| Radium-226 | Bq | 0.427 | 0.424 |

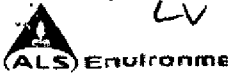
Duplicates:

Duplicates are used to assess problems with precision and help ensure that samples within a given batch were processed appropriately. The difference between duplicates must be within strict limits, otherwise corrective action is required. Please note, the duplicate(s) in this report are duplicates analyzed within a given batch of test samples and may not be from this specific group of samples.

| Duplicate Analysis | Units | Sample ID | First Result | Second Result |
|--------------------|-------|-----------|--------------|---------------|
| Radium-226 | Bq/L | 47078 | <0.005 | <0.005 |

All quality control results were within the specified limits and considered acceptable.

Approved by Section Supervisor



12740657 0050

CHAIN OF CUSTODY RECORD - ALS-448776868

L2740657

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 11/12/2022 4:29:00 PM COC Number: ALS-448776868 | | | | | | Containers Filtered Preservatives | | SW Kit | Re-226 Bottle | | | | | | | | | Number of Containers | Comments |
|--|-------------------------------|---------------------|-----------------|------------------|--------|---|---------------|--------|---------------|--|--|--|--|-------|--|--|--|----------------------|----------|
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | | | |
| 1 ✓ SW26_SW_20221108 | 11.67 | 6.7 | 2.1 | 11/11/2022 10:25 | SW | X | | | | | | | | 11 12 | | | | | |
| 2 ✓ SW25_SW_20221108 | 14.08 | 6.71 | 0.26 | 11/11/2022 10:50 | SW | X | | | | | | | | 11 12 | | | | | |
| 3 ✓ FB_SW_20221108 | | | | 11/11/2022 12:00 | SW | X | | | | | | | | 11 12 | | | | | |
| 4 ✓ SW06_SW_20221108 | | | | 11/11/2022 12:00 | SW | X | | | | | | | | 11 12 | | | | | |
| 5 ✓ SW20_SW_20221108 | 8.45 | 6.64 | 1.72 | 11/11/2022 12:55 | SW | X | | | | | | | | 12 13 | | | | | |
| 6 ✓ SW20_SW_20221108 | 8.45 | 6.64 | 1.72 | 11/11/2022 12:55 | SW | | X | | | | | | | 12 | | | | | |

| | | | | | | | | | |
|---|--|-----------------------|--|-----------------------------|--|------|--|--|--|
| Signature | | Data/Time | | Shipping Details | | ATTN | | Special Instructions: | |
| Shipped by | | 11/12/2022 4:29:00 PM | | Method of Shipment: Courier | | | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com | |
| Received by | | | | On Ice: yes / no | | | | | |
| Received by _____ <original signed by> <u>16 NOV 22 9:50</u> | | | | Shipped: Air/Ground | | | | | |
| | | | | Lab Name: ALS Thunder Bay | | | | | |
| | | | | Lab Phone: | | | | | |

1 ✓
2 ✓
3 ✓
4 ✓
5 ✓
6 ✓

5600
1490

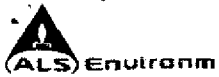


CHAIN OF CUSTODY RECORD - ALS-448776868

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: | | | | | | Containers Filtered | | SW Kit | RA-226 Bottle | | | | | | | | | | |
|---|-------------------------------|---------------------|-----------------|------------------|--------|--|----------------|--------|---------------|--|--|--|--|--|--|--|--|----------------------|----------|
| PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 11/12/2022 4:29:00 PM COC Number: ALS-448776868 | | | | | | Preservatives | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MIMER-BE | | | | | | | | | | | Number of Containers | Comments |
| SW22A_SW_20221108 | 11.26 | 7.01 | 1.08 | 11/11/2022 16:40 | SW | | X | | | | | | | | | | | 12 | |
| SW23_SW_20221108 | 12.47 | 6.99 | 2.25 | 11/12/2022 10:50 | SW | X | | | | | | | | | | | | 12 | |
| SW23_SW_20221108 | 12.47 | 6.99 | 2.25 | 11/12/2022 10:50 | SW | | X | | | | | | | | | | | 12 | |
| SW24_SW_20221108 | 10.8 | 6.97 | 1.77 | 11/12/2022 11:00 | SW | X | | | | | | | | | | | | 12 | |
| SW24_SW_20221108 | 10.8 | 6.97 | 1.77 | 11/12/2022 11:00 | SW | | X | | | | | | | | | | | 12 | |
| SW15_SW_20221108 | 12.35 | 7.08 | 1.32 | 11/12/2022 11:35 | SW | X | | | | | | | | | | | | 11 | |

15/15
X
X
X
X

| | | | | | | | | | |
|-------------|--|-----------------------|--|-----------------------------|--|------|--|-----------------------------------|--|
| Signature | | Data/Time | | Shipping Details | | ATTN | | Special Instructions: | |
| Shipped by | | 11/12/2022 4:29:00 PM | | Method of Shipment: Courier | | | | | |
| Received by | | | | On Ice: yes / no | | | | Email Invoice to: | |
| | | | | Shipped: Air/Ground | | | | rainyriver.accounts1@newgold.com | |
| | | | | Lab Name: ALS Thunder Bay | | | | Email Report to: | |
| | | | | Lab Phone: | | | | rainyriver.labresults@newgold.com | |



HAIN OF CUSTODY RECORD - ALS-448776868

| Project Name: Rainy River Location: Chapple Project Number: Project Manager: | | | | | | Containers Filtered | | SW Kit N | Ra-226 Bottle N | | | | | | | | | | |
|---|-------------------------------|---------------------|-----------------|------------------|--------|--|---------------|-------------|--------------------|--|--|--|--|--|--|--|--|----------------------|----------|
| PO Number: Project: Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 11/12/2022 4:29:00 PM COC Number: ALS-448776868 | | | | | | Preservatives | | | | | | | | | | | | | |
| | | | | | | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | | | |
| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | | | | | | | | | | | | | Number of Containers | Comments |
| SW17_SW_20221108 | 13.82 | 6.78 | 3.57 | 11/12/2022 11:55 | SW | X | | | | | | | | | | | | 11 | |
| SW16_SW_20221108 | 13.89 | 7.12 | 4.03 | 11/12/2022 13:45 | SW | X | | | | | | | | | | | | 11 | |
| SW03_SW_20221108 | 12.42 | 7.1 | 2.22 | 11/12/2022 15:15 | SW | X | | | | | | | | | | | | 11 | |
| TB_SW_20221108 | | | | 11/17/2022 12:00 | SW | X | | | | | | | | | | | | 11 | 12 |

12/15/22
 12/15/22
 12/15/22
 12/15/22

| | | | |
|---------------------------------------|-----------------------|---|--|
| Sample Receipt Details (ALS use only) | | | |
| Signature | Date/Time | Shipping Details | ATTN |
| Shipped by | 11/12/2022 4:29:00 PM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | |
| Received by | | | Special Instructions: Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 18-NOV-22
Report Date: 11-JAN-23 14:03 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2740868
Project P.O. #: 4500062842
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:

<original signed by>

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2740868-1 SW23_SW_20221108 | | | | | | | |
| Sampled By: CLIENT on 12-NOV-22 @ 10:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.99 | | 0.10 | pH | | 20-NOV-22 | R5894656 |
| Temperature, Client Supplied | 2.25 | | 0 | Degree C | | 20-NOV-22 | R5894656 |
| Physical Tests | | | | | | | |
| Color, True | 44.7 | | 2.0 | CU | | 19-NOV-22 | R5894612 |
| Conductivity (EC) | 565 | | 1.0 | uS/cm | | 22-NOV-22 | R5896636 |
| Hardness (as CaCO3) | 233 | | 0.50 | | | 18-NOV-22 | |
| pH | 7.94 | | 0.10 | pH | | 22-NOV-22 | R5896636 |
| Total Suspended Solids | 8.0 | | 3.0 | mg/L | | 19-NOV-22 | R5895057 |
| Total Dissolved Solids | 396 | | 20 | mg/L | | 19-NOV-22 | R5895096 |
| Turbidity | 5.20 | | 0.10 | NTU | | 19-NOV-22 | R5894598 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.8 | <DL | 2.0 | mg/L | | 24-NOV-22 | R5897902 |
| Alkalinity, Total (as CaCO3) | 144 | | 2.0 | mg/L | | 22-NOV-22 | R5896636 |
| Ammonia, Total (as N) | 0.082 | <T | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 22-NOV-22 | |
| Chloride (Cl) | 12.5 | | 0.20 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Fluoride (F) | 0.048 | | 0.040 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Nitrate (as N) | 0.444 | | 0.040 | mg/L | | 20-NOV-22 | R5895440 |
| Nitrite (as N) | 0.022 | <T | 0.020 | mg/L | | 20-NOV-22 | R5895440 |
| Total Kjeldahl Nitrogen | 1.05 | | 0.18 | mg/L | 25-NOV-22 | 25-NOV-22 | R5898158 |
| Orthophosphate-Dissolved (as P) | 0.0073 | | 0.0010 | mg/L | 19-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 138 | | 0.60 | mg/L | | 20-NOV-22 | R5895440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Total | 0.0022 | <T | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 15.4 | | 0.50 | mg/L | 23-NOV-22 | 28-NOV-22 | R5899038 |
| Total Organic Carbon | 16.0 | | 0.50 | mg/L | | 28-NOV-22 | R5899037 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.170 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | 0.00183 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.00084 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0267 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.042 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000070 | | 0.0000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 54.7 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.000028 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00055 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.00046 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740868-1 SW23_SW_20221108 | | | | | | | |
| Sampled By: CLIENT on 12-NOV-22 @ 10:50 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Copper (Cu)-Total | 0.00098 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.358 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.000122 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0092 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 21.6 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0400 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896397 |
| Molybdenum (Mo)-Total | 0.00278 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00159 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | <0.050 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 8.16 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00516 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000221 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 3.05 | | 0.10 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 23.7 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.247 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 46.8 | | 0.50 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | <0.000010 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00671 | | 0.00030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.00139 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00075 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0035 | | 0.0030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.00026 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5896979 |
| Aluminum (Al)-Dissolved | 0.0062 | | 0.0050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Antimony (Sb)-Dissolved | 0.00194 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Arsenic (As)-Dissolved | 0.00084 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Barium (Ba)-Dissolved | 0.0259 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Beryllium (Be)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Bismuth (Bi)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Boron (B)-Dissolved | 0.044 | | 0.010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Cadmium (Cd)-Dissolved | <0.0000050 | | 0.0000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Calcium (Ca)-Dissolved | 57.7 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Cesium (Cs)-Dissolved | <0.000010 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Chromium (Cr)-Dissolved | <0.00050 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740868-1 SW23_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 10:50 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Cobalt (Co)-Dissolved | 0.00031 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Copper (Cu)-Dissolved | 0.00082 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Iron (Fe)-Dissolved | 0.066 | | 0.010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Lead (Pb)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Lithium (Li)-Dissolved | 0.0113 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Magnesium (Mg)-Dissolved | 21.6 | | 0.0050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Manganese (Mn)-Dissolved | 0.00645 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896896 |
| Molybdenum (Mo)-Dissolved | 0.00281 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Nickel (Ni)-Dissolved | 0.00129 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Phosphorus (P)-Dissolved | <0.050 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Potassium (K)-Dissolved | 8.05 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Rubidium (Rb)-Dissolved | 0.00450 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Selenium (Se)-Dissolved | 0.000271 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Silicon (Si)-Dissolved | 2.54 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Silver (Ag)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Sodium (Na)-Dissolved | 24.4 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Strontium (Sr)-Dissolved | 0.247 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Sulfur (S)-Dissolved | 47.3 | | 0.50 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Thallium (Tl)-Dissolved | <0.000010 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Tin (Sn)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Titanium (Ti)-Dissolved | 0.00061 | | 0.00030 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Tungsten (W)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Uranium (U)-Dissolved | 0.00135 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Vanadium (V)-Dissolved | <0.00050 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Zinc (Zn)-Dissolved | 0.0017 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Zirconium (Zr)-Dissolved | <0.00020 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897131 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 19-NOV-22 | R5897180 |
| Chemical Oxygen Demand | 52 | | 10 | mg/L | 19-NOV-22 | 23-NOV-22 | R5896502 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 23-NOV-22 | 23-NOV-22 | R5896558 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740868-2 SW223_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 10:50 Matrix: SW | | | | | | | |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.01 | | 0.010 | Bq/L | | 08-JAN-23 | R5915057 |
| L2740868-3 SW24_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 11:00 Matrix: SW | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2740868-3 SW24_SW_20221108 | | | | | | | |
| Sampled By: CLIENT on 12-NOV-22 @ 11:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.97 | | 0.10 | pH | | 20-NOV-22 | R5894656 |
| Temperature, Client Supplied | 1.77 | | 0 | Degree C | | 20-NOV-22 | R5894656 |
| Physical Tests | | | | | | | |
| Color, True | 33.4 | | 2.0 | CU | | 19-NOV-22 | R5894612 |
| Conductivity (EC) | 884 | | 1.0 | uS/cm | | 22-NOV-22 | R5896636 |
| Hardness (as CaCO3) | 337 | | 0.50 | mg/L | | 12-DEC-22 | |
| pH | 7.95 | | 0.10 | pH | | 22-NOV-22 | R5896636 |
| Total Suspended Solids | 7.0 | | 3.0 | mg/L | | 19-NOV-22 | R5895057 |
| Total Dissolved Solids | 636 | | 20 | mg/L | | 19-NOV-22 | R5895096 |
| Turbidity | 6.48 | | 0.10 | NTU | | 19-NOV-22 | R5894598 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.4 | | 2.0 | mg/L | | 24-NOV-22 | R5897902 |
| Alkalinity, Total (as CaCO3) | 139 | | 2.0 | mg/L | | 22-NOV-22 | R5896636 |
| Ammonia, Total (as N) | 0.350 | | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 22-NOV-22 | |
| Chloride (Cl) | 23.7 | | 0.50 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Fluoride (F) | <0.10 | DLDS | 0.10 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Nitrate (as N) | 1.08 | | 0.10 | mg/L | | 20-NOV-22 | R5895440 |
| Nitrite (as N) | 0.079 | <T | 0.050 | mg/L | | 20-NOV-22 | R5895440 |
| Total Kjeldahl Nitrogen | 1.20 | | 0.18 | mg/L | 25-NOV-22 | 25-NOV-22 | R5898158 |
| Orthophosphate-Dissolved (as P) | 0.0063 | | 0.0010 | mg/L | 19-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 294 | | 1.5 | mg/L | | 20-NOV-22 | R5895440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0007 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 12.8 | | 0.50 | mg/L | 23-NOV-22 | 28-NOV-22 | R5899038 |
| Total Organic Carbon | 13.4 | | 0.50 | mg/L | | 28-NOV-22 | R5899037 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.156 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | 0.00516 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.00091 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0305 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.065 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000181 | | 0.0000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 85.6 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.000185 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00060 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.00097 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740868-3 SW24_SW_20221108 | | | | | | | |
| Sampled By: CLIENT on 12-NOV-22 @ 11:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Copper (Cu)-Total | 0.00138 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.529 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.000116 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0116 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 23.8 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0558 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896397 |
| Molybdenum (Mo)-Total | 0.00579 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00256 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | <0.050 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 18.6 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.0112 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000345 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 2.80 | | 0.10 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 48.2 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.449 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 99.4 | | 0.50 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | <0.000010 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00646 | | 0.00030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.00198 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00067 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0106 | | 0.0030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.00023 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5897056 |
| Aluminum (Al)-Dissolved | <0.0050 | | 0.0050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Antimony (Sb)-Dissolved | 0.00540 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Arsenic (As)-Dissolved | 0.00092 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Barium (Ba)-Dissolved | 0.0300 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Beryllium (Be)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Bismuth (Bi)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Boron (B)-Dissolved | 0.070 | | 0.010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Cadmium (Cd)-Dissolved | 0.0000052 | | 0.0000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Calcium (Ca)-Dissolved | 91.7 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Cesium (Cs)-Dissolved | 0.000145 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Chromium (Cr)-Dissolved | <0.00050 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740868-3 SW24_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 11:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Cobalt (Co)-Dissolved | 0.00080 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Copper (Cu)-Dissolved | 0.00127 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Iron (Fe)-Dissolved | 0.049 | | 0.010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Lead (Pb)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Lithium (Li)-Dissolved | 0.0136 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Magnesium (Mg)-Dissolved | 26.3 | | 0.0050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Manganese (Mn)-Dissolved | 0.00177 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896896 |
| Molybdenum (Mo)-Dissolved | 0.00577 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Nickel (Ni)-Dissolved | 0.00231 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Phosphorus (P)-Dissolved | <0.050 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Potassium (K)-Dissolved | 20.6 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Rubidium (Rb)-Dissolved | 0.0107 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Selenium (Se)-Dissolved | 0.000407 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Silicon (Si)-Dissolved | 2.53 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Silver (Ag)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Sodium (Na)-Dissolved | 55.8 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Strontium (Sr)-Dissolved | 0.455 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Sulfur (S)-Dissolved | 106 | | 0.50 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Thallium (Tl)-Dissolved | <0.000010 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tin (Sn)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Titanium (Ti)-Dissolved | 0.00035 | | 0.00030 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tungsten (W)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Uranium (U)-Dissolved | 0.00196 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Vanadium (V)-Dissolved | <0.00050 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Zinc (Zn)-Dissolved | 0.0063 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Zirconium (Zr)-Dissolved | <0.00020 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 19-NOV-22 | R5897180 |
| Chemical Oxygen Demand | 45 | | 10 | mg/L | 19-NOV-22 | 23-NOV-22 | R5896502 |
| Oil and Grease, Total | 0.2 | <DL | 1.0 | mg/L | 23-NOV-22 | 23-NOV-22 | R5896558 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740868-4 SW24_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 11:00 Matrix: SW | | | | | | | |
| Radiological Parameters | | | | | | | |
| Ra-226 | <0.01 | | 0.010 | Bq/L | | 08-JAN-23 | R5915057 |
| L2740868-5 SW15_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 11:35 Matrix: SW | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2740868-5 SW15_SW_20221108 | | | | | | | |
| Sampled By: CLIENT on 12-NOV-22 @ 11:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.08 | | 0.10 | pH | | 20-NOV-22 | R5894656 |
| Temperature, Client Supplied | 1.32 | | 0 | Degree C | | 20-NOV-22 | R5894656 |
| Physical Tests | | | | | | | |
| Color, True | 120 | | 2.0 | CU | | 19-NOV-22 | R5894612 |
| Conductivity (EC) | 537 | | 1.0 | uS/cm | | 22-NOV-22 | R5896636 |
| Hardness (as CaCO3) | 215 | | 0.50 | | | 18-NOV-22 | |
| pH | 7.86 | | 0.10 | pH | | 22-NOV-22 | R5896636 |
| Total Suspended Solids | 15.0 | | 3.0 | mg/L | | 19-NOV-22 | R5895057 |
| Total Dissolved Solids | 398 | | 20 | mg/L | | 19-NOV-22 | R5895096 |
| Turbidity | 12.3 | | 0.10 | NTU | | 19-NOV-22 | R5894598 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.0 | | 2.0 | mg/L | | 24-NOV-22 | R5897902 |
| Alkalinity, Total (as CaCO3) | 112 | | 2.0 | mg/L | | 22-NOV-22 | R5896636 |
| Ammonia, Total (as N) | 0.032 | <T | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 22-NOV-22 | |
| Chloride (Cl) | 13.1 | | 0.10 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Fluoride (F) | 0.055 | | 0.020 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Nitrate (as N) | 0.570 | | 0.020 | mg/L | | 20-NOV-22 | R5895440 |
| Nitrite (as N) | 0.017 | <T | 0.010 | mg/L | | 20-NOV-22 | R5895440 |
| Total Kjeldahl Nitrogen | 1.20 | | 0.18 | mg/L | 25-NOV-22 | 25-NOV-22 | R5898158 |
| Orthophosphate-Dissolved (as P) | 0.0046 | | 0.0010 | mg/L | 19-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 146 | | 0.30 | mg/L | | 20-NOV-22 | R5895440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0009 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Total | 0.0012 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Free | 0.0008 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 24.5 | | 0.50 | mg/L | 23-NOV-22 | 28-NOV-22 | R5899038 |
| Total Organic Carbon | 25.5 | | 0.50 | mg/L | | 28-NOV-22 | R5899037 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.301 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | 0.00223 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.00097 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0286 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.032 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000152 | | 0.0000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 52.0 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.000054 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00085 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.00064 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740868-5 SW15_SW_20221108 | | | | | | | |
| Sampled By: CLIENT on 12-NOV-22 @ 11:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Copper (Cu)-Total | 0.00173 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.621 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.000285 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0069 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 17.4 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0378 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896397 |
| Molybdenum (Mo)-Total | 0.00250 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00180 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | <0.050 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 9.09 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00571 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000188 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 3.95 | | 0.10 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 24.6 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.225 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 49.2 | | 0.50 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | <0.000010 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.0109 | | 0.00030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.00107 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00115 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0050 | | 0.0030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.00046 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5897056 |
| Aluminum (Al)-Dissolved | 0.0181 | | 0.0050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Antimony (Sb)-Dissolved | 0.00235 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Arsenic (As)-Dissolved | 0.00090 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Barium (Ba)-Dissolved | 0.0266 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Beryllium (Be)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Bismuth (Bi)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Boron (B)-Dissolved | 0.034 | | 0.010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Cadmium (Cd)-Dissolved | <0.0000050 | | 0.0000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Calcium (Ca)-Dissolved | 55.3 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Cesium (Cs)-Dissolved | <0.000010 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Chromium (Cr)-Dissolved | <0.00050 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2740868-5 SW15_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 11:35 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Cobalt (Co)-Dissolved | 0.00047 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Copper (Cu)-Dissolved | 0.00107 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Iron (Fe)-Dissolved | 0.207 | | 0.010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Lead (Pb)-Dissolved | 0.000055 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Lithium (Li)-Dissolved | 0.0077 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Magnesium (Mg)-Dissolved | 18.7 | | 0.0050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Manganese (Mn)-Dissolved | 0.00853 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896896 |
| Molybdenum (Mo)-Dissolved | 0.00257 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Nickel (Ni)-Dissolved | 0.00146 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Phosphorus (P)-Dissolved | <0.050 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Potassium (K)-Dissolved | 9.68 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Rubidium (Rb)-Dissolved | 0.00490 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Selenium (Se)-Dissolved | 0.000219 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Silicon (Si)-Dissolved | 2.67 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Silver (Ag)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Sodium (Na)-Dissolved | 27.5 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Strontium (Sr)-Dissolved | 0.222 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Sulfur (S)-Dissolved | 50.7 | | 0.50 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Thallium (Tl)-Dissolved | <0.000010 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tin (Sn)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Titanium (Ti)-Dissolved | 0.00227 | | 0.00030 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tungsten (W)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Uranium (U)-Dissolved | 0.00101 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Vanadium (V)-Dissolved | <0.00050 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Zinc (Zn)-Dissolved | 0.0020 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Zirconium (Zr)-Dissolved | 0.00029 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 19-NOV-22 | R5897180 |
| Chemical Oxygen Demand | 84 | | 10 | mg/L | 19-NOV-22 | 23-NOV-22 | R5896502 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 23-NOV-22 | 23-NOV-22 | R5896558 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740868-6 SW17_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 11:55 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 6.78 | | 0.10 | pH | | 20-NOV-22 | R5894656 |
| Temperature, Client Supplied | 3.57 | | 0 | Degree C | | 20-NOV-22 | R5894656 |
| Physical Tests | | | | | | | |
| Color, True | 44.8 | | 2.0 | CU | | 19-NOV-22 | R5894612 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740868-6 SW17_SW_20221108 | | | | | | | |
| Sampled By: CLIENT on 12-NOV-22 @ 11:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Conductivity (EC) | 91.6 | | 1.0 | uS/cm | | 22-NOV-22 | R5896636 |
| Hardness (as CaCO3) | 40.6 | | 0.50 | | | 18-NOV-22 | |
| pH | 7.37 | | 0.10 | pH | | 22-NOV-22 | R5896636 |
| Total Suspended Solids | 9.0 | | 3.0 | mg/L | | 19-NOV-22 | R5895057 |
| Total Dissolved Solids | 74 | | 13 | mg/L | | 19-NOV-22 | R5895096 |
| Turbidity | 6.38 | | 0.10 | NTU | | 19-NOV-22 | R5894598 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.0 | | 2.0 | mg/L | | 24-NOV-22 | R5897902 |
| Alkalinity, Total (as CaCO3) | 36.2 | | 2.0 | mg/L | | 22-NOV-22 | R5896636 |
| Ammonia, Total (as N) | 0.022 | <T | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 22-NOV-22 | |
| Chloride (Cl) | 2.65 | | 0.10 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Fluoride (F) | 0.031 | | 0.020 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Nitrate (as N) | 0.052 | <T | 0.020 | mg/L | | 20-NOV-22 | R5895440 |
| Nitrite (as N) | 0.002 | <DL | 0.010 | mg/L | | 20-NOV-22 | R5895440 |
| Total Kjeldahl Nitrogen | 0.55 | | 0.18 | mg/L | 25-NOV-22 | 25-NOV-22 | R5898158 |
| Orthophosphate-Dissolved (as P) | 0.0024 | | 0.0010 | mg/L | 19-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 7.10 | | 0.30 | mg/L | | 20-NOV-22 | R5895440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Free | 0.0005 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 13.3 | | 0.50 | mg/L | 23-NOV-22 | 28-NOV-22 | R5899038 |
| Total Organic Carbon | 11.8 | | 0.50 | mg/L | | 28-NOV-22 | R5899037 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.206 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.00055 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0118 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000130 | | 0.0000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 10.3 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.000037 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | 0.00074 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.00020 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | 0.00117 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.376 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.000223 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | <0.0010 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740868-6 SW17_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 11:55 Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Magnesium (Mg)-Total | 3.48 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0338 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896397 |
| Molybdenum (Mo)-Total | 0.000228 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00107 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | <0.050 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 0.924 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00242 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000113 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 2.22 | | 0.10 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 3.25 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.0296 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 2.10 | | 0.50 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | <0.000010 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00643 | | 0.00030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.000129 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00080 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0031 | | 0.0030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.00024 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5897056 |
| Aluminum (Al)-Dissolved | 0.0205 | | 0.0050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Antimony (Sb)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Arsenic (As)-Dissolved | 0.00049 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Barium (Ba)-Dissolved | 0.00961 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Beryllium (Be)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Bismuth (Bi)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Cadmium (Cd)-Dissolved | <0.0000050 | | 0.0000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Calcium (Ca)-Dissolved | 10.3 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Cesium (Cs)-Dissolved | <0.000010 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Chromium (Cr)-Dissolved | <0.00050 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Cobalt (Co)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Copper (Cu)-Dissolved | 0.00088 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Iron (Fe)-Dissolved | 0.079 | | 0.010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Lead (Pb)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|----------|-----------|-----------|----------|
| L2740868-6 SW17_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 11:55 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Lithium (Li)-Dissolved | <0.0010 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Magnesium (Mg)-Dissolved | 3.60 | | 0.0050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Manganese (Mn)-Dissolved | 0.00102 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896896 |
| Molybdenum (Mo)-Dissolved | 0.000234 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Nickel (Ni)-Dissolved | 0.00067 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Phosphorus (P)-Dissolved | <0.050 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Potassium (K)-Dissolved | 0.924 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Rubidium (Rb)-Dissolved | 0.00171 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Selenium (Se)-Dissolved | 0.000114 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Silicon (Si)-Dissolved | 1.81 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Silver (Ag)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Sodium (Na)-Dissolved | 3.49 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Strontium (Sr)-Dissolved | 0.0286 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Sulfur (S)-Dissolved | 2.06 | | 0.50 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Thallium (Tl)-Dissolved | <0.000010 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tin (Sn)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Titanium (Ti)-Dissolved | 0.00083 | | 0.00030 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tungsten (W)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Uranium (U)-Dissolved | 0.000108 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Vanadium (V)-Dissolved | <0.00050 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Zinc (Zn)-Dissolved | <0.0010 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Zirconium (Zr)-Dissolved | <0.00020 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 19-NOV-22 | R5897180 |
| Chemical Oxygen Demand | 45 | | 10 | mg/L | 19-NOV-22 | 23-NOV-22 | R5896502 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 23-NOV-22 | 23-NOV-22 | R5896558 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740868-7 SW16_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 13:45 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.12 | | 0.10 | pH | | 20-NOV-22 | R5894656 |
| Temperature, Client Supplied | 4.03 | | 0 | Degree C | | 20-NOV-22 | R5894656 |
| Physical Tests | | | | | | | |
| Color, True | 33.7 | | 2.0 | CU | | 19-NOV-22 | R5894612 |
| Conductivity (EC) | 65.2 | | 1.0 | uS/cm | | 22-NOV-22 | R5896636 |
| Hardness (as CaCO3) | 26.1 | | 0.50 | | | 18-NOV-22 | |
| pH | 7.24 | | 0.10 | pH | | 22-NOV-22 | R5896636 |
| Total Suspended Solids | 8.0 | | 3.0 | mg/L | | 19-NOV-22 | R5895057 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740868-7 SW16_SW_20221108 | | | | | | | |
| Sampled By: CLIENT on 12-NOV-22 @ 13:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Total Dissolved Solids | 54 | | 10 | mg/L | | 19-NOV-22 | R5895096 |
| Turbidity | 4.11 | | 0.10 | NTU | | 19-NOV-22 | R5894598 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.4 | <DL | 2.0 | mg/L | | 24-NOV-22 | R5897902 |
| Alkalinity, Total (as CaCO3) | 25.6 | | 2.0 | mg/L | | 22-NOV-22 | R5896636 |
| Ammonia, Total (as N) | 0.002 | <DL | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 22-NOV-22 | |
| Chloride (Cl) | 2.36 | | 0.10 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Fluoride (F) | 0.026 | | 0.020 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Nitrate (as N) | 0.032 | <T | 0.020 | mg/L | | 20-NOV-22 | R5895440 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 20-NOV-22 | R5895440 |
| Total Kjeldahl Nitrogen | 0.50 | | 0.18 | mg/L | 25-NOV-22 | 25-NOV-22 | R5898158 |
| Orthophosphate-Dissolved (as P) | 0.0031 | | 0.0010 | mg/L | 19-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 3.85 | <T | 0.30 | mg/L | | 20-NOV-22 | R5895440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Free | 0.0006 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 10.3 | | 0.50 | mg/L | 23-NOV-22 | 28-NOV-22 | R5899038 |
| Total Organic Carbon | 10.1 | | 0.50 | mg/L | | 28-NOV-22 | R5899037 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.136 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.00048 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.00904 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000088 | | 0.0000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 6.90 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.000024 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | <0.00050 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.00012 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | 0.00104 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.223 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.000189 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | <0.0010 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 2.16 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0144 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896397 |
| Molybdenum (Mo)-Total | 0.000164 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740868-7 SW16_SW_20221108 | | | | | | | |
| Sampled By: CLIENT on 12-NOV-22 @ 13:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Nickel (Ni)-Total | 0.00076 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | <0.050 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 0.735 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00214 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | 0.000106 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 1.70 | | 0.10 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 3.04 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.0219 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 1.20 | | 0.50 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | <0.000010 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00427 | | 0.00030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.000083 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00059 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | <0.0030 | | 0.0030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | <0.00020 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5897056 |
| Aluminum (Al)-Dissolved | 0.0210 | | 0.0050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Antimony (Sb)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Arsenic (As)-Dissolved | 0.00045 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Barium (Ba)-Dissolved | 0.00773 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Beryllium (Be)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Bismuth (Bi)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Cadmium (Cd)-Dissolved | <0.0000050 | | 0.0000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Calcium (Ca)-Dissolved | 6.98 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Cesium (Cs)-Dissolved | <0.000010 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Chromium (Cr)-Dissolved | <0.00050 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Cobalt (Co)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Copper (Cu)-Dissolved | 0.00090 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Iron (Fe)-Dissolved | 0.050 | | 0.010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Lead (Pb)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Lithium (Li)-Dissolved | <0.0010 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Magnesium (Mg)-Dissolved | 2.11 | | 0.0050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Manganese (Mn)-Dissolved | 0.00057 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896896 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L2740868-7 SW16_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 13:45 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Molybdenum (Mo)-Dissolved | 0.000172 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Nickel (Ni)-Dissolved | 0.00059 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Phosphorus (P)-Dissolved | <0.050 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Potassium (K)-Dissolved | 0.732 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Rubidium (Rb)-Dissolved | 0.00167 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Selenium (Se)-Dissolved | 0.000110 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Silicon (Si)-Dissolved | 1.39 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Silver (Ag)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Sodium (Na)-Dissolved | 3.30 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Strontium (Sr)-Dissolved | 0.0214 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Sulfur (S)-Dissolved | 1.23 | | 0.50 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Thallium (Tl)-Dissolved | <0.000010 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tin (Sn)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Titanium (Ti)-Dissolved | 0.00061 | | 0.00030 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tungsten (W)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Uranium (U)-Dissolved | 0.000070 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Vanadium (V)-Dissolved | <0.00050 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Zinc (Zn)-Dissolved | <0.0010 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Zirconium (Zr)-Dissolved | <0.00020 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 19-NOV-22 | R5897180 |
| Chemical Oxygen Demand | 41 | | 10 | mg/L | 19-NOV-22 | 23-NOV-22 | R5896502 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 23-NOV-22 | 23-NOV-22 | R5896558 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740868-8 SW03_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 15:15 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| pH, Client Supplied | 7.1 | | 0.10 | pH | | 20-NOV-22 | R5894656 |
| Temperature, Client Supplied | 2.22 | | 0 | Degree C | | 20-NOV-22 | R5894656 |
| Physical Tests | | | | | | | |
| Color, True | 39.6 | | 2.0 | CU | | 19-NOV-22 | R5894612 |
| Conductivity (EC) | 562 | | 1.0 | uS/cm | | 22-NOV-22 | R5896636 |
| Hardness (as CaCO3) | 240 | | 0.50 | | | 18-NOV-22 | |
| pH | 7.98 | | 0.10 | pH | | 22-NOV-22 | R5896636 |
| Total Suspended Solids | 6.0 | | 3.0 | mg/L | | 19-NOV-22 | R5895057 |
| Total Dissolved Solids | 380 | | 20 | mg/L | | 19-NOV-22 | R5895096 |
| Turbidity | 4.60 | | 0.10 | NTU | | 19-NOV-22 | R5894598 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.8 | | 2.0 | mg/L | | 24-NOV-22 | R5897902 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2740868-8 SW03_SW_20221108 | | | | | | | |
| Sampled By: CLIENT on 12-NOV-22 @ 15:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Alkalinity, Total (as CaCO3) | 156 | | 2.0 | mg/L | | 22-NOV-22 | R5896636 |
| Ammonia, Total (as N) | 0.078 | <T | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 22-NOV-22 | |
| Chloride (Cl) | 15.6 | | 0.20 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Fluoride (F) | 0.058 | | 0.040 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Nitrate (as N) | 0.428 | | 0.040 | mg/L | | 20-NOV-22 | R5895440 |
| Nitrite (as N) | 0.015 | <DL | 0.020 | mg/L | | 20-NOV-22 | R5895440 |
| Total Kjeldahl Nitrogen | 0.90 | | 0.18 | mg/L | 25-NOV-22 | 25-NOV-22 | R5898158 |
| Orthophosphate-Dissolved (as P) | 0.0071 | | 0.0010 | mg/L | 19-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 121 | | 0.60 | mg/L | | 20-NOV-22 | R5895440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Free | 0.0008 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 15.1 | | 0.50 | mg/L | 23-NOV-22 | 28-NOV-22 | R5899038 |
| Total Organic Carbon | 15.5 | | 0.50 | mg/L | | 28-NOV-22 | R5899037 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.145 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | 0.00185 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | 0.00089 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | 0.0239 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Boron (B)-Total | 0.041 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | 0.0000100 | | 0.0000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | 53.8 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | 0.000043 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | <0.00050 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | 0.00039 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | 0.00095 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | 0.294 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | 0.000118 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | 0.0092 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | 21.4 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | 0.0269 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896397 |
| Molybdenum (Mo)-Total | 0.00260 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | 0.00153 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | <0.050 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | 7.99 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | 0.00539 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740868-8 SW03_SW_20221108 | | | | | | | |
| Sampled By: CLIENT on 12-NOV-22 @ 15:15 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Selenium (Se)-Total | 0.000225 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | 3.11 | | 0.10 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | 22.3 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | 0.246 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | 40.8 | | 0.50 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | <0.000010 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | 0.00528 | | 0.00030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | 0.00140 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | 0.00065 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | 0.0048 | | 0.0030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | 0.00023 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 24-NOV-22 | R5897056 |
| Aluminum (Al)-Dissolved | <0.0050 | | 0.0050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Antimony (Sb)-Dissolved | 0.00194 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Arsenic (As)-Dissolved | 0.00092 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Barium (Ba)-Dissolved | 0.0228 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Beryllium (Be)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Bismuth (Bi)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Boron (B)-Dissolved | 0.043 | | 0.010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Cadmium (Cd)-Dissolved | <0.0000050 | | 0.0000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Calcium (Ca)-Dissolved | 58.1 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Cesium (Cs)-Dissolved | 0.000018 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Chromium (Cr)-Dissolved | <0.00050 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Cobalt (Co)-Dissolved | 0.00028 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Copper (Cu)-Dissolved | 0.00082 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Iron (Fe)-Dissolved | 0.055 | | 0.010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Lead (Pb)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Lithium (Li)-Dissolved | 0.0106 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Magnesium (Mg)-Dissolved | 23.1 | | 0.0050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Manganese (Mn)-Dissolved | 0.00543 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896896 |
| Molybdenum (Mo)-Dissolved | 0.00266 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Nickel (Ni)-Dissolved | 0.00142 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Phosphorus (P)-Dissolved | <0.050 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Potassium (K)-Dissolved | 8.44 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2740868-8 SW03_SW_20221108 Sampled By: CLIENT on 12-NOV-22 @ 15:15 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Rubidium (Rb)-Dissolved | 0.00494 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Selenium (Se)-Dissolved | 0.000259 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Silicon (Si)-Dissolved | 2.87 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Silver (Ag)-Dissolved | <0.000050 | | 0.000050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Sodium (Na)-Dissolved | 25.6 | | 0.050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Strontium (Sr)-Dissolved | 0.250 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Sulfur (S)-Dissolved | 41.1 | | 0.50 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Thallium (Tl)-Dissolved | <0.000010 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tin (Sn)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Titanium (Ti)-Dissolved | 0.00047 | | 0.00030 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Tungsten (W)-Dissolved | <0.00010 | | 0.00010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Uranium (U)-Dissolved | 0.00136 | | 0.000010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Vanadium (V)-Dissolved | <0.00050 | | 0.00050 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Zinc (Zn)-Dissolved | 0.0030 | | 0.0010 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Zirconium (Zr)-Dissolved | <0.00020 | | 0.00020 | mg/L | 24-NOV-22 | 24-NOV-22 | R5897182 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 19-NOV-22 | R5897180 |
| Chemical Oxygen Demand | 55 | | 10 | mg/L | 19-NOV-22 | 23-NOV-22 | R5896502 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 23-NOV-22 | 23-NOV-22 | R5896558 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2740868-9 TB_SW_20221108 Sampled By: CLIENT on 12-NOV-22 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 19-NOV-22 | R5894612 |
| Conductivity (EC) | 0.4 | <DL | 1.0 | uS/cm | | 22-NOV-22 | R5896636 |
| Hardness (as CaCO3) | <0.50 | | 0.50 | | | 18-NOV-22 | |
| pH | 5.13 | | 0.10 | pH | | 22-NOV-22 | R5896636 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 19-NOV-22 | R5895057 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 19-NOV-22 | R5895096 |
| Turbidity | <0.10 | | 0.10 | NTU | | 19-NOV-22 | R5894598 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.2 | <DL | 2.0 | mg/L | | 24-NOV-22 | R5897902 |
| Alkalinity, Total (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 22-NOV-22 | R5896636 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 21-NOV-22 | R5895719 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 19-NOV-22 | 20-NOV-22 | R5895440 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 20-NOV-22 | R5895440 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 20-NOV-22 | R5895440 |
| Total Kjeldahl Nitrogen | <0.05 | <W | 0.18 | mg/L | 25-NOV-22 | 25-NOV-22 | R5898158 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|-----------------------------------|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740868-9 TB_SW_20221108 | | | | | | | |
| Sampled By: CLIENT on 12-NOV-22 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 19-NOV-22 | 23-NOV-22 | R5897360 |
| Sulfate (SO4) | 0.25 | <DL | 0.30 | mg/L | | 20-NOV-22 | R5895440 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 23-NOV-22 | R5896943 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 12-NOV-22 | 28-NOV-22 | R5899038 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 28-NOV-22 | R5899037 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | <0.0050 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Antimony (Sb)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Arsenic (As)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Barium (Ba)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Beryllium (Be)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Bismuth (Bi)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cadmium (Cd)-Total | <0.0000050 | | 0.0000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Calcium (Ca)-Total | <0.050 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cesium (Cs)-Total | <0.000010 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Chromium (Cr)-Total | <0.00050 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Cobalt (Co)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Copper (Cu)-Total | <0.00050 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Iron (Fe)-Total | <0.010 | | 0.010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lead (Pb)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Lithium (Li)-Total | <0.0010 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Magnesium (Mg)-Total | <0.0050 | | 0.0050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Manganese (Mn)-Total | <0.00050 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896397 |
| Molybdenum (Mo)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Nickel (Ni)-Total | <0.00050 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Phosphorus (P)-Total | <0.050 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Potassium (K)-Total | <0.050 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Rubidium (Rb)-Total | <0.00020 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Selenium (Se)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silicon (Si)-Total | <0.10 | | 0.10 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Silver (Ag)-Total | <0.000050 | | 0.000050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sodium (Na)-Total | <0.050 | | 0.050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Strontium (Sr)-Total | <0.0010 | | 0.0010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Sulfur (S)-Total | <0.50 | | 0.50 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Thallium (Tl)-Total | <0.000010 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--------------------------------------|------------|------------|-----------|-------|-----------|-----------|----------|
| L2740868-9 TB_SW_20221108 | | | | | | | |
| Sampled By: CLIENT on 12-NOV-22 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tin (Sn)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Titanium (Ti)-Total | <0.00030 | | 0.00030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Tungsten (W)-Total | <0.00010 | | 0.00010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Uranium (U)-Total | <0.000010 | | 0.000010 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Vanadium (V)-Total | <0.00050 | | 0.00050 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zinc (Zn)-Total | <0.0030 | | 0.0030 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Zirconium (Zr)-Total | <0.00020 | | 0.00020 | mg/L | 22-NOV-22 | 23-NOV-22 | R5897016 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | | | 23-NOV-22 | R5896101 |
| Aluminum (Al)-Dissolved | <0.0050 | | 0.0050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Antimony (Sb)-Dissolved | <0.00010 | | 0.00010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Arsenic (As)-Dissolved | <0.00010 | | 0.00010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Barium (Ba)-Dissolved | <0.00010 | | 0.00010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Beryllium (Be)-Dissolved | <0.00010 | | 0.00010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Bismuth (Bi)-Dissolved | <0.000050 | | 0.000050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Cadmium (Cd)-Dissolved | <0.0000050 | | 0.0000050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Calcium (Ca)-Dissolved | <0.050 | | 0.050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Cesium (Cs)-Dissolved | <0.000010 | | 0.000010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Chromium (Cr)-Dissolved | <0.00050 | | 0.00050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Cobalt (Co)-Dissolved | <0.00010 | | 0.00010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Copper (Cu)-Dissolved | <0.00020 | | 0.00020 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Iron (Fe)-Dissolved | <0.010 | | 0.010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Lead (Pb)-Dissolved | <0.000050 | | 0.000050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Lithium (Li)-Dissolved | <0.0010 | | 0.0010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Magnesium (Mg)-Dissolved | <0.0050 | | 0.0050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Manganese (Mn)-Dissolved | <0.00050 | | 0.00050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 23-NOV-22 | R5896896 |
| Molybdenum (Mo)-Dissolved | <0.000050 | | 0.000050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Nickel (Ni)-Dissolved | <0.00050 | | 0.00050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Phosphorus (P)-Dissolved | <0.050 | | 0.050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Potassium (K)-Dissolved | <0.050 | | 0.050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Rubidium (Rb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Selenium (Se)-Dissolved | <0.000050 | | 0.000050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Silicon (Si)-Dissolved | <0.050 | | 0.050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Silver (Ag)-Dissolved | <0.000050 | | 0.000050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Sodium (Na)-Dissolved | <0.050 | | 0.050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Strontium (Sr)-Dissolved | <0.0010 | | 0.0010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Sulfur (S)-Dissolved | <0.50 | | 0.50 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|-------|-----------|-----------|----------|
| L2740868-9 TB_SW_20221108 Sampled By: CLIENT on 12-NOV-22 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thallium (Tl)-Dissolved | <0.000010 | | 0.000010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Tin (Sn)-Dissolved | <0.00010 | | 0.00010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Titanium (Ti)-Dissolved | <0.00030 | | 0.00030 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Tungsten (W)-Dissolved | <0.00010 | | 0.00010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Uranium (U)-Dissolved | <0.000010 | | 0.000010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Vanadium (V)-Dissolved | <0.00050 | | 0.00050 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Zinc (Zn)-Dissolved | <0.0010 | | 0.0010 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Zirconium (Zr)-Dissolved | <0.00020 | | 0.00020 | mg/L | 23-NOV-22 | 23-NOV-22 | R5897018 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 19-NOV-22 | R5897180 |
| Chemical Oxygen Demand | <10 | | 10 | mg/L | 19-NOV-22 | 23-NOV-22 | R5896502 |
| Oil and Grease, Total | <0.2 | <W | 1.0 | mg/L | 23-NOV-22 | 23-NOV-22 | R5896558 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------|---------------------------|-----------|------------------------------------|
| Matrix Spike | Antimony (Sb)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Barium (Ba)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Barium (Ba)-Dissolved | MS-B | L2740868-3, -5, -6, -7, -8 |
| Matrix Spike | Boron (B)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Boron (B)-Dissolved | MS-B | L2740868-3, -5, -6, -7, -8 |
| Matrix Spike | Calcium (Ca)-Dissolved | MS-B | L2740868-9 |
| Matrix Spike | Calcium (Ca)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Calcium (Ca)-Dissolved | MS-B | L2740868-3, -5, -6, -7, -8 |
| Matrix Spike | Copper (Cu)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Iron (Fe)-Dissolved | MS-B | L2740868-9 |
| Matrix Spike | Lithium (Li)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Lithium (Li)-Dissolved | MS-B | L2740868-3, -5, -6, -7, -8 |
| Matrix Spike | Magnesium (Mg)-Dissolved | MS-B | L2740868-9 |
| Matrix Spike | Magnesium (Mg)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Magnesium (Mg)-Dissolved | MS-B | L2740868-3, -5, -6, -7, -8 |
| Matrix Spike | Manganese (Mn)-Dissolved | MS-B | L2740868-9 |
| Matrix Spike | Manganese (Mn)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Molybdenum (Mo)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Nickel (Ni)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Potassium (K)-Dissolved | MS-B | L2740868-9 |
| Matrix Spike | Potassium (K)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Potassium (K)-Dissolved | MS-B | L2740868-3, -5, -6, -7, -8 |
| Matrix Spike | Rubidium (Rb)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Rubidium (Rb)-Dissolved | MS-B | L2740868-3, -5, -6, -7, -8 |
| Matrix Spike | Silicon (Si)-Dissolved | MS-B | L2740868-9 |
| Matrix Spike | Silicon (Si)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Silicon (Si)-Dissolved | MS-B | L2740868-3, -5, -6, -7, -8 |
| Matrix Spike | Sodium (Na)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Sodium (Na)-Dissolved | MS-B | L2740868-3, -5, -6, -7, -8 |
| Matrix Spike | Strontium (Sr)-Dissolved | MS-B | L2740868-9 |
| Matrix Spike | Strontium (Sr)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Strontium (Sr)-Dissolved | MS-B | L2740868-3, -5, -6, -7, -8 |
| Matrix Spike | Sulfur (S)-Dissolved | MS-B | L2740868-9 |
| Matrix Spike | Sulfur (S)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Sulfur (S)-Dissolved | MS-B | L2740868-3, -5, -6, -7, -8 |
| Matrix Spike | Uranium (U)-Dissolved | MS-B | L2740868-1 |
| Matrix Spike | Uranium (U)-Dissolved | MS-B | L2740868-3, -5, -6, -7, -8 |
| Matrix Spike | Aluminum (Al)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Barium (Ba)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Boron (B)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Iron (Fe)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Manganese (Mn)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Potassium (K)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Rubidium (Rb)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Silicon (Si)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Sulfur (S)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Uranium (U)-Total | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |
| Matrix Spike | Total Organic Carbon | MS-B | L2740868-1, -3, -5, -6, -7, -8, -9 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|-------------|
|-----------|-------------|

Reference Information

| | |
|------|--|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| DLDS | Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|----------|---|--|
| ACY-MISA-TB | Effluent | Acidity (as CaCO ₃) | APHA 2310 B-POTENTIOMETRIC TITRATION |
| Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample. | | | |
| ALK-MISA-TB | Effluent | Alkalinity, Total (as CaCO ₃) | APHA 2320 B-Auto-Pot. Titration |
| This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. | | | |
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
| All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation. | | | |
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
| This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis. | | | |
| CN-T-MISA-CFA-WT | Effluent | Total Cyanide by CFA | ISO 14403-2:2012 (modified) |
| This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. | | | |
| Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero. | | | |
| CN-WAD-MISA-CFA-WT | Effluent | Weak Acid Dissociable Cyanide by CFA | APHA 4500-CN CYANIDE (modified) |
| This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis. | | | |
| COD-TB | Water | Chemical Oxygen Demand | APHA 5220D |
| This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method. | | | |
| COLOUR-TB | Water | Colour, True | APHA 2120 C |
| True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard. | | | |
| DOC-WT | Effluent | Dissolved Organic Carbon for MISA | APHA 5310 B-Instrumental |
| EC-MISA-TB | Effluent | Conductivity (EC) | APHA 2510 B-ELECTRODE |
| This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode. | | | |
| F-IC-N-TB | Water | Fluoride in Water by IC | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| HARDNESS-CALC-TB | Effluent | Hardness (as CaCO ₃) | CALCULATION |
| HG-DIS-WT | Effluent | Mercury (Hg)-Dissolved for MISA | SW846 7470A |
| HG-TOT-WT | Effluent | Mercury (Hg)-Total for MISA | SW846 7470A |

Reference Information

| | | | |
|---------------|-------|--|------------------------|
| MET-D-CCMS-WT | Water | Dissolved Metals in Water by CRC ICPMS | APHA 3030B/6020A (mod) |
|---------------|-------|--|------------------------|

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

| | | | |
|---------------|-------|------------------------------------|-----------------------|
| MET-T-CCMS-WT | Water | Total Metals in Water by CRC ICPMS | EPA 200.2/6020A (mod) |
|---------------|-------|------------------------------------|-----------------------|

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

| | | | |
|---------------|----------|------------------------------|--|
| NH3-MISA-F-TB | Effluent | Ammonia by Discrete Analyzer | catnr 157/158 062217/99321057 (modified) |
|---------------|----------|------------------------------|--|

Ammonia is determined by Flow-injection analysis with fluorescence detection

| | | | |
|-------------------|----------|--------------------|-------------|
| NH3-UNION-CALC-TB | Effluent | Un-ionized ammonia | Calculation |
|-------------------|----------|--------------------|-------------|

| | | | |
|----------------|----------|------------------------|-----------------|
| NO2-MISA-IC-TB | Effluent | Nitrite in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|----------------|----------|------------------------|-----------------|
| NO3-MISA-IC-TB | Effluent | Nitrate in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|------------|----------|--------------------------------|--------------------------------|
| OGG-TOT-WT | Effluent | Oil and Grease, Total for MISA | APHA 5520 B-Hexane Gravimetric |
|------------|----------|--------------------------------|--------------------------------|

| | | | |
|--------------|-------|----|---------------------------|
| PH-CLIENT-TB | Water | pH | Result supplied by Client |
|--------------|-------|----|---------------------------|

| | | | |
|------------|----------|----|-----------------------|
| PH-MISA-TB | Effluent | pH | APHA 4500-H-ELECTRODE |
|------------|----------|----|-----------------------|

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

| | | | |
|---------------|-------|--------------------------|--------------------------------|
| PO4-DO-COL-TB | Water | Dissolved Orthophosphate | APHA 4500-P B, F, G (modified) |
|---------------|-------|--------------------------|--------------------------------|

Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection.

| | | | |
|---------------|-------|------------|---------------------------------------|
| RA226-MMER-BE | Water | Radium 226 | Radium Isotopes by Alpha Spectrometry |
|---------------|-------|------------|---------------------------------------|

Determination of Gamma Emitting Radionuclides In Water and Solids by Gamma Spectrometry.

| | | | |
|----------------|----------|------------------------|-----------------|
| SO4-MISA-IC-TB | Effluent | Sulfate in Water by IC | EPA 300.1 (mod) |
|----------------|----------|------------------------|-----------------|

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

| | | | |
|-------------|----------|------------------------|------------------------|
| TDS-MISA-TB | Effluent | Total Dissolved Solids | APHA 2540 C (modified) |
|-------------|----------|------------------------|------------------------|

Aqueous matrices are analyzed using gravimetry and evaporation

| | | | |
|----------------|-------|-------------|---------------------------|
| TEMP-CLIENT-TB | Water | Temperature | Result supplied by Client |
|----------------|-------|-------------|---------------------------|

| | | | |
|--------|----------|----------------------------------|-------------|
| TKN-WT | Effluent | Total Kjeldahl Nitrogen for MISA | APHA 4500-N |
|--------|----------|----------------------------------|-------------|

| | | | |
|--------|-------|----------------------|------------|
| TOC-WT | Water | Total Organic Carbon | APHA 5310B |
|--------|-------|----------------------|------------|

Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector.

| | | | |
|-------------|----------|------------------------|------------------------|
| TSS-MISA-TB | Effluent | Total Suspended Solids | APHA 2540 D (modified) |
|-------------|----------|------------------------|------------------------|

Reference Information

Aqueous matrices are analyzed using gravimetry

TURBIDITY-TB Water Turbidity APHA 2130 B-Nephelometer

Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |
| BE | BUREAU VERITAS - MISSISSAUGA, ONTARIO, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| BOD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5897180 | | | | | | | |
| WG3773342-3 | DUP | L2740868-1 | | | | | | |
| Biochemical Oxygen Demand | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 30 | 19-NOV-22 |
| WG3773342-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 99.5 | | % | | 85-115 | 19-NOV-22 |
| WG3773342-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 19-NOV-22 |
| CL-L-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5895440 | | | | | | | |
| WG3773370-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 102.4 | | % | | 90-110 | 20-NOV-22 |
| WG3773370-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 20-NOV-22 |
| COD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5896502 | | | | | | | |
| WG3773359-3 | DUP | L2740868-1 | | | | | | |
| Chemical Oxygen Demand | | 52 | 58 | | mg/L | 9.9 | 20 | 23-NOV-22 |
| WG3773359-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 104.9 | | % | | 85-115 | 23-NOV-22 |
| WG3773359-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 23-NOV-22 |
| WG3773359-4 | MS | L2740868-3 | | | | | | |
| Chemical Oxygen Demand | | | 102.1 | | % | | 75-125 | 23-NOV-22 |
| COLOUR-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5894612 | | | | | | | |
| WG3773367-2 | LCS | | | | | | | |
| Color, True | | | 103.1 | | % | | 85-115 | 19-NOV-22 |
| WG3773367-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 19-NOV-22 |
| F-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5895440 | | | | | | | |
| WG3773370-2 | LCS | | | | | | | |
| Fluoride (F) | | | 101.9 | | % | | 90-110 | 20-NOV-22 |
| WG3773370-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 20-NOV-22 |
| MET-D-CCMS-WT | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|----------|-----------|-------|-----|-------|-----------|
| MET-D-CCMS-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5897018 | | | | | | | |
| WG3773738-4 | DUP | WG3773738-3 | | | | | | |
| Aluminum (Al)-Dissolved | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Antimony (Sb)-Dissolved | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Arsenic (As)-Dissolved | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Barium (Ba)-Dissolved | | 0.0068 | 0.0069 | | mg/L | 1.5 | 20 | 23-NOV-22 |
| Beryllium (Be)-Dissolved | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Bismuth (Bi)-Dissolved | | <0.00050 | <0.00050 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Boron (B)-Dissolved | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Cadmium (Cd)-Dissolved | | 0.000121 | 0.000106 | | mg/L | 13 | 20 | 23-NOV-22 |
| Calcium (Ca)-Dissolved | | 386 | 378 | | mg/L | 2.2 | 20 | 23-NOV-22 |
| Cesium (Cs)-Dissolved | | 0.00078 | 0.00077 | | mg/L | 1.1 | 20 | 23-NOV-22 |
| Chromium (Cr)-Dissolved | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Cobalt (Co)-Dissolved | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Copper (Cu)-Dissolved | | 0.0034 | 0.0035 | | mg/L | 2.7 | 20 | 23-NOV-22 |
| Iron (Fe)-Dissolved | | 0.12 | 0.12 | | mg/L | 0.9 | 20 | 23-NOV-22 |
| Lead (Pb)-Dissolved | | <0.00050 | <0.00050 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Lithium (Li)-Dissolved | | 0.033 | 0.033 | | mg/L | 1.6 | 20 | 23-NOV-22 |
| Magnesium (Mg)-Dissolved | | 54.3 | 54.7 | | mg/L | 0.8 | 20 | 23-NOV-22 |
| Manganese (Mn)-Dissolved | | 0.0227 | 0.0234 | | mg/L | 3.2 | 20 | 23-NOV-22 |
| Molybdenum (Mo)-Dissolved | | <0.00050 | <0.00050 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Nickel (Ni)-Dissolved | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Phosphorus (P)-Dissolved | | <0.50 | <0.50 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Potassium (K)-Dissolved | | 10.1 | 10.4 | | mg/L | 2.2 | 20 | 23-NOV-22 |
| Rubidium (Rb)-Dissolved | | 0.0241 | 0.0248 | | mg/L | 2.8 | 20 | 23-NOV-22 |
| Selenium (Se)-Dissolved | | <0.00050 | <0.00050 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Silicon (Si)-Dissolved | | 1.16 | 1.17 | | mg/L | 0.6 | 20 | 23-NOV-22 |
| Silver (Ag)-Dissolved | | <0.00050 | <0.00050 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Sodium (Na)-Dissolved | | 9.04 | 8.84 | | mg/L | 2.2 | 20 | 23-NOV-22 |
| Strontium (Sr)-Dissolved | | 0.541 | 0.559 | | mg/L | 3.3 | 20 | 23-NOV-22 |
| Sulfur (S)-Dissolved | | 406 | 412 | | mg/L | 1.6 | 20 | 23-NOV-22 |
| Tellurium (Te)-Dissolved | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Thallium (Tl)-Dissolved | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Thorium (Th)-Dissolved | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Tin (Sn)-Dissolved | | <0.0010 | <0.0010 | | mg/L | | | 23-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| MET-D-CCMS-WT | | Water | | | | | | |
| Batch | R5897018 | | | | | | | |
| WG3773738-4 | DUP | WG3773738-3 | | | | | | |
| Tin (Sn)-Dissolved | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Titanium (Ti)-Dissolved | | <0.0030 | <0.0030 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Tungsten (W)-Dissolved | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Uranium (U)-Dissolved | | 0.00143 | 0.00143 | | mg/L | 0.3 | 20 | 23-NOV-22 |
| Vanadium (V)-Dissolved | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Zinc (Zn)-Dissolved | | 0.036 | 0.035 | | mg/L | 2.5 | 20 | 23-NOV-22 |
| Zirconium (Zr)-Dissolved | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| WG3773738-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 101.7 | | % | | 80-120 | 23-NOV-22 |
| Antimony (Sb)-Dissolved | | | 102.0 | | % | | 80-120 | 23-NOV-22 |
| Arsenic (As)-Dissolved | | | 105.4 | | % | | 80-120 | 23-NOV-22 |
| Barium (Ba)-Dissolved | | | 104.8 | | % | | 80-120 | 23-NOV-22 |
| Beryllium (Be)-Dissolved | | | 97.1 | | % | | 80-120 | 23-NOV-22 |
| Bismuth (Bi)-Dissolved | | | 100.5 | | % | | 80-120 | 23-NOV-22 |
| Boron (B)-Dissolved | | | 93.7 | | % | | 80-120 | 23-NOV-22 |
| Cadmium (Cd)-Dissolved | | | 100.6 | | % | | 80-120 | 23-NOV-22 |
| Calcium (Ca)-Dissolved | | | 98.0 | | % | | 80-120 | 23-NOV-22 |
| Cesium (Cs)-Dissolved | | | 106.9 | | % | | 80-120 | 23-NOV-22 |
| Chromium (Cr)-Dissolved | | | 99.6 | | % | | 80-120 | 23-NOV-22 |
| Cobalt (Co)-Dissolved | | | 99.9 | | % | | 80-120 | 23-NOV-22 |
| Copper (Cu)-Dissolved | | | 97.4 | | % | | 80-120 | 23-NOV-22 |
| Iron (Fe)-Dissolved | | | 101.0 | | % | | 80-120 | 23-NOV-22 |
| Lead (Pb)-Dissolved | | | 102.8 | | % | | 80-120 | 23-NOV-22 |
| Lithium (Li)-Dissolved | | | 91.0 | | % | | 80-120 | 23-NOV-22 |
| Magnesium (Mg)-Dissolved | | | 107.9 | | % | | 80-120 | 23-NOV-22 |
| Manganese (Mn)-Dissolved | | | 102.4 | | % | | 80-120 | 23-NOV-22 |
| Molybdenum (Mo)-Dissolved | | | 104.5 | | % | | 80-120 | 23-NOV-22 |
| Nickel (Ni)-Dissolved | | | 99.6 | | % | | 80-120 | 23-NOV-22 |
| Phosphorus (P)-Dissolved | | | 103.1 | | % | | 80-120 | 23-NOV-22 |
| Potassium (K)-Dissolved | | | 101.5 | | % | | 80-120 | 23-NOV-22 |
| Rubidium (Rb)-Dissolved | | | 106.8 | | % | | 80-120 | 23-NOV-22 |
| Selenium (Se)-Dissolved | | | 102.3 | | % | | 80-120 | 23-NOV-22 |
| Silicon (Si)-Dissolved | | | 107.0 | | % | | 60-140 | 23-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-CCMS-WT | | Water | | | | | | |
| Batch | R5897018 | | | | | | | |
| WG3773738-2 LCS | | | | | | | | |
| Silver (Ag)-Dissolved | | | 96.0 | | % | | 80-120 | 23-NOV-22 |
| Sodium (Na)-Dissolved | | | 99.6 | | % | | 80-120 | 23-NOV-22 |
| Strontium (Sr)-Dissolved | | | 108.8 | | % | | 80-120 | 23-NOV-22 |
| Sulfur (S)-Dissolved | | | 101.9 | | % | | 80-120 | 23-NOV-22 |
| Tellurium (Te)-Dissolved | | | 104.6 | | % | | 80-120 | 23-NOV-22 |
| Thallium (Tl)-Dissolved | | | 100.2 | | % | | 80-120 | 23-NOV-22 |
| Thorium (Th)-Dissolved | | | 101.1 | | % | | 80-120 | 23-NOV-22 |
| Tin (Sn)-Dissolved | | | 103.1 | | % | | 80-120 | 23-NOV-22 |
| Titanium (Ti)-Dissolved | | | 100.8 | | % | | 80-120 | 23-NOV-22 |
| Tungsten (W)-Dissolved | | | 102.2 | | % | | 80-120 | 23-NOV-22 |
| Uranium (U)-Dissolved | | | 103.1 | | % | | 80-120 | 23-NOV-22 |
| Vanadium (V)-Dissolved | | | 101.8 | | % | | 80-120 | 23-NOV-22 |
| Zinc (Zn)-Dissolved | | | 102.6 | | % | | 80-120 | 23-NOV-22 |
| Zirconium (Zr)-Dissolved | | | 103.1 | | % | | 80-120 | 23-NOV-22 |
| WG3773738-1 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0050 | | mg/L | | 0.005 | 23-NOV-22 |
| Antimony (Sb)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Arsenic (As)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Barium (Ba)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Beryllium (Be)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Bismuth (Bi)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 23-NOV-22 |
| Boron (B)-Dissolved | | | <0.010 | | mg/L | | 0.01 | 23-NOV-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000050 | | mg/L | | 0.000005 | 23-NOV-22 |
| Calcium (Ca)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 23-NOV-22 |
| Cesium (Cs)-Dissolved | | | <0.000010 | | mg/L | | 0.00001 | 23-NOV-22 |
| Chromium (Cr)-Dissolved | | | <0.00050 | | mg/L | | 0.0005 | 23-NOV-22 |
| Cobalt (Co)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Copper (Cu)-Dissolved | | | <0.00020 | | mg/L | | 0.0002 | 23-NOV-22 |
| Iron (Fe)-Dissolved | | | <0.010 | | mg/L | | 0.01 | 23-NOV-22 |
| Lead (Pb)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 23-NOV-22 |
| Lithium (Li)-Dissolved | | | <0.0010 | | mg/L | | 0.001 | 23-NOV-22 |
| Magnesium (Mg)-Dissolved | | | <0.0050 | | mg/L | | 0.005 | 23-NOV-22 |
| Manganese (Mn)-Dissolved | | | <0.00050 | | mg/L | | 0.0005 | 23-NOV-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 23-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|-----|---------|-----------|
| MET-D-CCMS-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5897018 | | | | | | | |
| WG3773738-1 | MB | | | | | | | |
| Nickel (Ni)-Dissolved | | | <0.00050 | | mg/L | | 0.0005 | 23-NOV-22 |
| Phosphorus (P)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 23-NOV-22 |
| Potassium (K)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 23-NOV-22 |
| Rubidium (Rb)-Dissolved | | | <0.00020 | | mg/L | | 0.0002 | 23-NOV-22 |
| Selenium (Se)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 23-NOV-22 |
| Silicon (Si)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 23-NOV-22 |
| Silver (Ag)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 23-NOV-22 |
| Sodium (Na)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 23-NOV-22 |
| Strontium (Sr)-Dissolved | | | <0.0010 | | mg/L | | 0.001 | 23-NOV-22 |
| Sulfur (S)-Dissolved | | | <0.50 | | mg/L | | 0.5 | 23-NOV-22 |
| Tellurium (Te)-Dissolved | | | <0.00020 | | mg/L | | 0.0002 | 23-NOV-22 |
| Thallium (Tl)-Dissolved | | | <0.000010 | | mg/L | | 0.00001 | 23-NOV-22 |
| Thorium (Th)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Tin (Sn)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Titanium (Ti)-Dissolved | | | <0.00030 | | mg/L | | 0.0003 | 23-NOV-22 |
| Tungsten (W)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Uranium (U)-Dissolved | | | <0.000010 | | mg/L | | 0.00001 | 23-NOV-22 |
| Vanadium (V)-Dissolved | | | <0.00050 | | mg/L | | 0.0005 | 23-NOV-22 |
| Zinc (Zn)-Dissolved | | | <0.0010 | | mg/L | | 0.001 | 23-NOV-22 |
| Zirconium (Zr)-Dissolved | | | <0.00020 | | mg/L | | 0.0002 | 23-NOV-22 |
| WG3773738-5 | MS | WG3773738-6 | | | | | | |
| Aluminum (Al)-Dissolved | | | 98.1 | | % | | 70-130 | 23-NOV-22 |
| Antimony (Sb)-Dissolved | | | 100.3 | | % | | 70-130 | 23-NOV-22 |
| Arsenic (As)-Dissolved | | | 113.4 | | % | | 70-130 | 23-NOV-22 |
| Barium (Ba)-Dissolved | | | 101.9 | | % | | 70-130 | 23-NOV-22 |
| Beryllium (Be)-Dissolved | | | 95.8 | | % | | 70-130 | 23-NOV-22 |
| Bismuth (Bi)-Dissolved | | | 91.7 | | % | | 70-130 | 23-NOV-22 |
| Boron (B)-Dissolved | | | 87.9 | | % | | 70-130 | 23-NOV-22 |
| Cadmium (Cd)-Dissolved | | | 105.4 | | % | | 70-130 | 23-NOV-22 |
| Calcium (Ca)-Dissolved | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Cesium (Cs)-Dissolved | | | 104.9 | | % | | 70-130 | 23-NOV-22 |
| Chromium (Cr)-Dissolved | | | 101.0 | | % | | 70-130 | 23-NOV-22 |
| Cobalt (Co)-Dissolved | | | 101.0 | | % | | 70-130 | 23-NOV-22 |
| Copper (Cu)-Dissolved | | | 96.9 | | % | | 70-130 | 23-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| MET-D-CCMS-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5897018 | | | | | | | |
| WG3773738-5 MS | | WG3773738-6 | | | | | | |
| Iron (Fe)-Dissolved | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Lead (Pb)-Dissolved | | | 100.7 | | % | | 70-130 | 23-NOV-22 |
| Lithium (Li)-Dissolved | | | 92.9 | | % | | 70-130 | 23-NOV-22 |
| Magnesium (Mg)-Dissolved | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Manganese (Mn)-Dissolved | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Molybdenum (Mo)-Dissolved | | | 103.6 | | % | | 70-130 | 23-NOV-22 |
| Nickel (Ni)-Dissolved | | | 99.2 | | % | | 70-130 | 23-NOV-22 |
| Phosphorus (P)-Dissolved | | | 115.3 | | % | | 70-130 | 23-NOV-22 |
| Potassium (K)-Dissolved | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Rubidium (Rb)-Dissolved | | | 101.1 | | % | | 70-130 | 23-NOV-22 |
| Selenium (Se)-Dissolved | | | 119.7 | | % | | 70-130 | 23-NOV-22 |
| Silicon (Si)-Dissolved | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Silver (Ag)-Dissolved | | | 89.9 | | % | | 70-130 | 23-NOV-22 |
| Sodium (Na)-Dissolved | | | 85.9 | | % | | 70-130 | 23-NOV-22 |
| Strontium (Sr)-Dissolved | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Sulfur (S)-Dissolved | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Tellurium (Te)-Dissolved | | | 108.0 | | % | | 70-130 | 23-NOV-22 |
| Thallium (Tl)-Dissolved | | | 101.3 | | % | | 70-130 | 23-NOV-22 |
| Thorium (Th)-Dissolved | | | 98.1 | | % | | 70-130 | 23-NOV-22 |
| Tin (Sn)-Dissolved | | | 102.5 | | % | | 70-130 | 23-NOV-22 |
| Titanium (Ti)-Dissolved | | | 99.5 | | % | | 70-130 | 23-NOV-22 |
| Tungsten (W)-Dissolved | | | 100.7 | | % | | 70-130 | 23-NOV-22 |
| Uranium (U)-Dissolved | | | 103.1 | | % | | 70-130 | 23-NOV-22 |
| Vanadium (V)-Dissolved | | | 103.6 | | % | | 70-130 | 23-NOV-22 |
| Zinc (Zn)-Dissolved | | | 97.6 | | % | | 70-130 | 23-NOV-22 |
| Zirconium (Zr)-Dissolved | | | 102.9 | | % | | 70-130 | 23-NOV-22 |
| Batch | R5897131 | | | | | | | |
| WG3773920-4 DUP | | WG3773920-3 | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.050 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Antimony (Sb)-Dissolved | | | 0.0136 | | mg/L | 3.1 | 20 | 24-NOV-22 |
| Arsenic (As)-Dissolved | | | 0.0018 | | mg/L | 4.3 | 20 | 24-NOV-22 |
| Barium (Ba)-Dissolved | | | 0.0352 | | mg/L | 1.3 | 20 | 24-NOV-22 |
| Beryllium (Be)-Dissolved | | | <0.0010 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|----------|-----------|-------|-----|-------|-----------|
| MET-D-CCMS-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5897131 | | | | | | | |
| WG3773920-4 | DUP | WG3773920-3 | | | | | | |
| Bismuth (Bi)-Dissolved | | <0.00050 | <0.00050 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Boron (B)-Dissolved | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Cadmium (Cd)-Dissolved | | 0.000161 | 0.000176 | | mg/L | 8.7 | 20 | 24-NOV-22 |
| Calcium (Ca)-Dissolved | | 190 | 177 | | mg/L | 7.1 | 20 | 24-NOV-22 |
| Cesium (Cs)-Dissolved | | 0.00032 | 0.00029 | | mg/L | 7.9 | 20 | 24-NOV-22 |
| Chromium (Cr)-Dissolved | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Cobalt (Co)-Dissolved | | 0.0011 | 0.0012 | | mg/L | 8.7 | 20 | 24-NOV-22 |
| Copper (Cu)-Dissolved | | 0.0140 | 0.0138 | | mg/L | 1.0 | 20 | 24-NOV-22 |
| Iron (Fe)-Dissolved | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Lead (Pb)-Dissolved | | <0.00050 | <0.00050 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Lithium (Li)-Dissolved | | 0.018 | 0.015 | | mg/L | 19 | 20 | 24-NOV-22 |
| Magnesium (Mg)-Dissolved | | 25.2 | 26.8 | | mg/L | 6.3 | 20 | 24-NOV-22 |
| Manganese (Mn)-Dissolved | | 0.0314 | 0.0333 | | mg/L | 6.0 | 20 | 24-NOV-22 |
| Molybdenum (Mo)-Dissolved | | 0.0134 | 0.0128 | | mg/L | 5.1 | 20 | 24-NOV-22 |
| Nickel (Ni)-Dissolved | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Phosphorus (P)-Dissolved | | <0.50 | <0.50 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Potassium (K)-Dissolved | | 49.9 | 54.1 | | mg/L | 8.1 | 20 | 24-NOV-22 |
| Rubidium (Rb)-Dissolved | | 0.0251 | 0.0269 | | mg/L | 7.2 | 20 | 24-NOV-22 |
| Selenium (Se)-Dissolved | | 0.00167 | 0.00173 | | mg/L | 3.6 | 20 | 24-NOV-22 |
| Silicon (Si)-Dissolved | | 0.99 | 1.01 | | mg/L | 2.2 | 20 | 24-NOV-22 |
| Silver (Ag)-Dissolved | | <0.00050 | <0.00050 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Sodium (Na)-Dissolved | | 91.5 | 97.6 | | mg/L | 6.4 | 20 | 24-NOV-22 |
| Strontium (Sr)-Dissolved | | 0.830 | 0.802 | | mg/L | 3.4 | 20 | 24-NOV-22 |
| Sulfur (S)-Dissolved | | 237 | 236 | | mg/L | 0.5 | 20 | 24-NOV-22 |
| Tellurium (Te)-Dissolved | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Thallium (Tl)-Dissolved | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Thorium (Th)-Dissolved | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Tin (Sn)-Dissolved | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Titanium (Ti)-Dissolved | | <0.0030 | <0.0030 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Tungsten (W)-Dissolved | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Uranium (U)-Dissolved | | 0.00169 | 0.00163 | | mg/L | 3.8 | 20 | 24-NOV-22 |
| Vanadium (V)-Dissolved | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Zinc (Zn)-Dissolved | | 0.019 | 0.019 | | mg/L | | | 24-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| MET-D-CCMS-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5897131 | | | | | | | |
| WG3773920-4 | DUP | WG3773920-3 | | | | | | |
| Zinc (Zn)-Dissolved | | 0.019 | 0.019 | | mg/L | 4.1 | 20 | 24-NOV-22 |
| Zirconium (Zr)-Dissolved | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| WG3773920-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 101.6 | | % | | 80-120 | 24-NOV-22 |
| Antimony (Sb)-Dissolved | | | 104.3 | | % | | 80-120 | 24-NOV-22 |
| Arsenic (As)-Dissolved | | | 105.3 | | % | | 80-120 | 24-NOV-22 |
| Barium (Ba)-Dissolved | | | 104.3 | | % | | 80-120 | 24-NOV-22 |
| Beryllium (Be)-Dissolved | | | 95.9 | | % | | 80-120 | 24-NOV-22 |
| Bismuth (Bi)-Dissolved | | | 101.6 | | % | | 80-120 | 24-NOV-22 |
| Boron (B)-Dissolved | | | 97.7 | | % | | 80-120 | 24-NOV-22 |
| Cadmium (Cd)-Dissolved | | | 102.6 | | % | | 80-120 | 24-NOV-22 |
| Calcium (Ca)-Dissolved | | | 99.5 | | % | | 80-120 | 24-NOV-22 |
| Cesium (Cs)-Dissolved | | | 105.4 | | % | | 80-120 | 24-NOV-22 |
| Chromium (Cr)-Dissolved | | | 100.3 | | % | | 80-120 | 24-NOV-22 |
| Cobalt (Co)-Dissolved | | | 100.4 | | % | | 80-120 | 24-NOV-22 |
| Copper (Cu)-Dissolved | | | 98.2 | | % | | 80-120 | 24-NOV-22 |
| Iron (Fe)-Dissolved | | | 99.6 | | % | | 80-120 | 24-NOV-22 |
| Lead (Pb)-Dissolved | | | 102.0 | | % | | 80-120 | 24-NOV-22 |
| Lithium (Li)-Dissolved | | | 97.7 | | % | | 80-120 | 24-NOV-22 |
| Magnesium (Mg)-Dissolved | | | 107.0 | | % | | 80-120 | 24-NOV-22 |
| Manganese (Mn)-Dissolved | | | 100.0 | | % | | 80-120 | 24-NOV-22 |
| Molybdenum (Mo)-Dissolved | | | 102.0 | | % | | 80-120 | 24-NOV-22 |
| Nickel (Ni)-Dissolved | | | 99.2 | | % | | 80-120 | 24-NOV-22 |
| Phosphorus (P)-Dissolved | | | 103.9 | | % | | 80-120 | 24-NOV-22 |
| Potassium (K)-Dissolved | | | 100.6 | | % | | 80-120 | 24-NOV-22 |
| Rubidium (Rb)-Dissolved | | | 105.2 | | % | | 80-120 | 24-NOV-22 |
| Selenium (Se)-Dissolved | | | 102.3 | | % | | 80-120 | 24-NOV-22 |
| Silicon (Si)-Dissolved | | | 100.5 | | % | | 60-140 | 24-NOV-22 |
| Silver (Ag)-Dissolved | | | 95.1 | | % | | 80-120 | 24-NOV-22 |
| Sodium (Na)-Dissolved | | | 100.4 | | % | | 80-120 | 24-NOV-22 |
| Strontium (Sr)-Dissolved | | | 102.6 | | % | | 80-120 | 24-NOV-22 |
| Sulfur (S)-Dissolved | | | 100.9 | | % | | 80-120 | 24-NOV-22 |
| Tellurium (Te)-Dissolved | | | 105.5 | | % | | 80-120 | 24-NOV-22 |
| Thallium (Tl)-Dissolved | | | 101.7 | | % | | 80-120 | 24-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-CCMS-WT | | Water | | | | | | |
| Batch | R5897131 | | | | | | | |
| WG3773920-2 | LCS | | | | | | | |
| Thorium (Th)-Dissolved | | | 100.4 | | % | | 80-120 | 24-NOV-22 |
| Tin (Sn)-Dissolved | | | 105.3 | | % | | 80-120 | 24-NOV-22 |
| Titanium (Ti)-Dissolved | | | 100.4 | | % | | 80-120 | 24-NOV-22 |
| Tungsten (W)-Dissolved | | | 99.4 | | % | | 80-120 | 24-NOV-22 |
| Uranium (U)-Dissolved | | | 101.5 | | % | | 80-120 | 24-NOV-22 |
| Vanadium (V)-Dissolved | | | 103.4 | | % | | 80-120 | 24-NOV-22 |
| Zinc (Zn)-Dissolved | | | 106.0 | | % | | 80-120 | 24-NOV-22 |
| Zirconium (Zr)-Dissolved | | | 101.5 | | % | | 80-120 | 24-NOV-22 |
| WG3773920-1 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0050 | | mg/L | | 0.005 | 24-NOV-22 |
| Antimony (Sb)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Arsenic (As)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Barium (Ba)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Beryllium (Be)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Bismuth (Bi)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 24-NOV-22 |
| Boron (B)-Dissolved | | | <0.010 | | mg/L | | 0.01 | 24-NOV-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000050 | | mg/L | | 0.000005 | 24-NOV-22 |
| Calcium (Ca)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 24-NOV-22 |
| Cesium (Cs)-Dissolved | | | <0.000010 | | mg/L | | 0.00001 | 24-NOV-22 |
| Chromium (Cr)-Dissolved | | | <0.00050 | | mg/L | | 0.0005 | 24-NOV-22 |
| Cobalt (Co)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Copper (Cu)-Dissolved | | | <0.00020 | | mg/L | | 0.0002 | 24-NOV-22 |
| Iron (Fe)-Dissolved | | | <0.010 | | mg/L | | 0.01 | 24-NOV-22 |
| Lead (Pb)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 24-NOV-22 |
| Lithium (Li)-Dissolved | | | <0.0010 | | mg/L | | 0.001 | 24-NOV-22 |
| Magnesium (Mg)-Dissolved | | | <0.0050 | | mg/L | | 0.005 | 24-NOV-22 |
| Manganese (Mn)-Dissolved | | | <0.00050 | | mg/L | | 0.0005 | 24-NOV-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 24-NOV-22 |
| Nickel (Ni)-Dissolved | | | <0.00050 | | mg/L | | 0.0005 | 24-NOV-22 |
| Phosphorus (P)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 24-NOV-22 |
| Potassium (K)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 24-NOV-22 |
| Rubidium (Rb)-Dissolved | | | <0.00020 | | mg/L | | 0.0002 | 24-NOV-22 |
| Selenium (Se)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 24-NOV-22 |
| Silicon (Si)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 24-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|-----------|-----------|-------|-----|---------|-----------|
| MET-D-CCMS-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5897131 | | | | | | | |
| WG3773920-1 | MB | | | | | | | |
| Silver (Ag)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 24-NOV-22 |
| Sodium (Na)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 24-NOV-22 |
| Strontium (Sr)-Dissolved | | | <0.0010 | | mg/L | | 0.001 | 24-NOV-22 |
| Sulfur (S)-Dissolved | | | <0.50 | | mg/L | | 0.5 | 24-NOV-22 |
| Tellurium (Te)-Dissolved | | | <0.00020 | | mg/L | | 0.0002 | 24-NOV-22 |
| Thallium (Tl)-Dissolved | | | <0.000010 | | mg/L | | 0.00001 | 24-NOV-22 |
| Thorium (Th)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Tin (Sn)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Titanium (Ti)-Dissolved | | | <0.00030 | | mg/L | | 0.0003 | 24-NOV-22 |
| Tungsten (W)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Uranium (U)-Dissolved | | | <0.000010 | | mg/L | | 0.00001 | 24-NOV-22 |
| Vanadium (V)-Dissolved | | | <0.00050 | | mg/L | | 0.0005 | 24-NOV-22 |
| Zinc (Zn)-Dissolved | | | <0.0010 | | mg/L | | 0.001 | 24-NOV-22 |
| Zirconium (Zr)-Dissolved | | | <0.00020 | | mg/L | | 0.0002 | 24-NOV-22 |
| WG3773920-5 | MS | WG3773920-6 | | | | | | |
| Aluminum (Al)-Dissolved | | | 99.3 | | % | | 70-130 | 24-NOV-22 |
| Antimony (Sb)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Arsenic (As)-Dissolved | | | 117.3 | | % | | 70-130 | 24-NOV-22 |
| Barium (Ba)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Beryllium (Be)-Dissolved | | | 93.4 | | % | | 70-130 | 24-NOV-22 |
| Bismuth (Bi)-Dissolved | | | 92.2 | | % | | 70-130 | 24-NOV-22 |
| Boron (B)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Cadmium (Cd)-Dissolved | | | 98.0 | | % | | 70-130 | 24-NOV-22 |
| Calcium (Ca)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Cesium (Cs)-Dissolved | | | 106.6 | | % | | 70-130 | 24-NOV-22 |
| Chromium (Cr)-Dissolved | | | 99.9 | | % | | 70-130 | 24-NOV-22 |
| Cobalt (Co)-Dissolved | | | 101.3 | | % | | 70-130 | 24-NOV-22 |
| Copper (Cu)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Iron (Fe)-Dissolved | | | 98.3 | | % | | 70-130 | 24-NOV-22 |
| Lead (Pb)-Dissolved | | | 90.8 | | % | | 70-130 | 24-NOV-22 |
| Lithium (Li)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Magnesium (Mg)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Manganese (Mn)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Molybdenum (Mo)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-CCMS-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5897131 | | | | | | | |
| WG3773920-5 MS | | WG3773920-6 | | | | | | |
| Nickel (Ni)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Phosphorus (P)-Dissolved | | | 114.6 | | % | | 70-130 | 24-NOV-22 |
| Potassium (K)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Rubidium (Rb)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Selenium (Se)-Dissolved | | | 122.1 | | % | | 70-130 | 24-NOV-22 |
| Silicon (Si)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Silver (Ag)-Dissolved | | | 77.0 | | % | | 70-130 | 24-NOV-22 |
| Sodium (Na)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Strontium (Sr)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Sulfur (S)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Tellurium (Te)-Dissolved | | | 106.1 | | % | | 70-130 | 24-NOV-22 |
| Thallium (Tl)-Dissolved | | | 93.6 | | % | | 70-130 | 24-NOV-22 |
| Thorium (Th)-Dissolved | | | 96.6 | | % | | 70-130 | 24-NOV-22 |
| Tin (Sn)-Dissolved | | | 104.7 | | % | | 70-130 | 24-NOV-22 |
| Titanium (Ti)-Dissolved | | | 105.4 | | % | | 70-130 | 24-NOV-22 |
| Tungsten (W)-Dissolved | | | 103.9 | | % | | 70-130 | 24-NOV-22 |
| Uranium (U)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Vanadium (V)-Dissolved | | | 106.4 | | % | | 70-130 | 24-NOV-22 |
| Zinc (Zn)-Dissolved | | | 95.4 | | % | | 70-130 | 24-NOV-22 |
| Zirconium (Zr)-Dissolved | | | 106.9 | | % | | 70-130 | 24-NOV-22 |
| Batch | R5897182 | | | | | | | |
| WG3773943-4 DUP | | WG3773943-3 | | | | | | |
| Aluminum (Al)-Dissolved | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Antimony (Sb)-Dissolved | | 0.00018 | 0.00018 | | mg/L | 1.4 | 20 | 24-NOV-22 |
| Arsenic (As)-Dissolved | | 0.00269 | 0.00259 | | mg/L | 3.7 | 20 | 24-NOV-22 |
| Barium (Ba)-Dissolved | | 0.278 | 0.276 | | mg/L | 0.9 | 20 | 24-NOV-22 |
| Beryllium (Be)-Dissolved | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Bismuth (Bi)-Dissolved | | <0.000050 | <0.000050 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Boron (B)-Dissolved | | 0.024 | 0.024 | | mg/L | 2.2 | 20 | 24-NOV-22 |
| Cadmium (Cd)-Dissolved | | 0.0000285 | 0.0000248 | | mg/L | 14 | 20 | 24-NOV-22 |
| Calcium (Ca)-Dissolved | | 135 | 135 | | mg/L | 0.2 | 20 | 24-NOV-22 |
| Cesium (Cs)-Dissolved | | 0.000013 | 0.000011 | | mg/L | 18 | 20 | 24-NOV-22 |
| Chromium (Cr)-Dissolved | | 0.00057 | <0.00050 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-CCMS-WT | | Water | | | | | | |
| Batch | R5897182 | | | | | | | |
| WG3773943-4 | DUP | WG3773943-3 | | | | | | |
| Cobalt (Co)-Dissolved | | 0.00249 | 0.00247 | | mg/L | 1.0 | 20 | 24-NOV-22 |
| Copper (Cu)-Dissolved | | 0.00060 | 0.00062 | | mg/L | 3.1 | 20 | 24-NOV-22 |
| Iron (Fe)-Dissolved | | 0.090 | 0.089 | | mg/L | 0.8 | 20 | 24-NOV-22 |
| Lead (Pb)-Dissolved | | <0.000050 | <0.000050 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Lithium (Li)-Dissolved | | 0.0142 | 0.0145 | | mg/L | 1.8 | 20 | 24-NOV-22 |
| Magnesium (Mg)-Dissolved | | 58.3 | 58.6 | | mg/L | 0.5 | 20 | 24-NOV-22 |
| Manganese (Mn)-Dissolved | | 0.818 | 0.814 | | mg/L | 0.5 | 20 | 24-NOV-22 |
| Molybdenum (Mo)-Dissolved | | 0.00419 | 0.00424 | | mg/L | 1.2 | 20 | 24-NOV-22 |
| Nickel (Ni)-Dissolved | | 0.00690 | 0.00686 | | mg/L | 0.5 | 20 | 24-NOV-22 |
| Phosphorus (P)-Dissolved | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Potassium (K)-Dissolved | | 2.40 | 2.41 | | mg/L | 0.5 | 20 | 24-NOV-22 |
| Rubidium (Rb)-Dissolved | | 0.00371 | 0.00357 | | mg/L | 3.7 | 20 | 24-NOV-22 |
| Selenium (Se)-Dissolved | | 0.000118 | 0.000101 | | mg/L | 16 | 20 | 24-NOV-22 |
| Silicon (Si)-Dissolved | | 10.9 | 10.8 | | mg/L | 0.6 | 20 | 24-NOV-22 |
| Silver (Ag)-Dissolved | | <0.000050 | <0.000050 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Sodium (Na)-Dissolved | | 8.88 | 8.95 | | mg/L | 0.7 | 20 | 24-NOV-22 |
| Strontium (Sr)-Dissolved | | 0.176 | 0.176 | | mg/L | 0.1 | 20 | 24-NOV-22 |
| Sulfur (S)-Dissolved | | 3.07 | 3.14 | | mg/L | 2.4 | 20 | 24-NOV-22 |
| Tellurium (Te)-Dissolved | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Thallium (Tl)-Dissolved | | 0.000036 | 0.000039 | | mg/L | 7.5 | 20 | 24-NOV-22 |
| Thorium (Th)-Dissolved | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Tin (Sn)-Dissolved | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Titanium (Ti)-Dissolved | | <0.00030 | <0.00030 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Tungsten (W)-Dissolved | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 20 | 24-NOV-22 |
| Uranium (U)-Dissolved | | 0.00220 | 0.00225 | | mg/L | 1.9 | 20 | 24-NOV-22 |
| Vanadium (V)-Dissolved | | 0.00078 | 0.00077 | | mg/L | 1.8 | 20 | 24-NOV-22 |
| Zinc (Zn)-Dissolved | | 0.0014 | 0.0014 | | mg/L | 4.0 | 20 | 24-NOV-22 |
| Zirconium (Zr)-Dissolved | | 0.00038 | 0.00037 | | mg/L | 4.5 | 20 | 24-NOV-22 |
| WG3773943-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 105.4 | | % | | 80-120 | 24-NOV-22 |
| Antimony (Sb)-Dissolved | | | 104.4 | | % | | 80-120 | 24-NOV-22 |
| Arsenic (As)-Dissolved | | | 108.5 | | % | | 80-120 | 24-NOV-22 |
| Barium (Ba)-Dissolved | | | 102.1 | | % | | 80-120 | 24-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|--------|-----------|-------|-----|--------|-----------|
| MET-D-CCMS-WT | | Water | | | | | | |
| Batch | R5897182 | | | | | | | |
| WG3773943-2 | LCS | | | | | | | |
| Beryllium (Be)-Dissolved | | | 102.7 | | % | | 80-120 | 24-NOV-22 |
| Bismuth (Bi)-Dissolved | | | 103.1 | | % | | 80-120 | 24-NOV-22 |
| Boron (B)-Dissolved | | | 98.0 | | % | | 80-120 | 24-NOV-22 |
| Cadmium (Cd)-Dissolved | | | 105.5 | | % | | 80-120 | 24-NOV-22 |
| Calcium (Ca)-Dissolved | | | 102.5 | | % | | 80-120 | 24-NOV-22 |
| Cesium (Cs)-Dissolved | | | 105.7 | | % | | 80-120 | 24-NOV-22 |
| Chromium (Cr)-Dissolved | | | 105.0 | | % | | 80-120 | 24-NOV-22 |
| Cobalt (Co)-Dissolved | | | 105.2 | | % | | 80-120 | 24-NOV-22 |
| Copper (Cu)-Dissolved | | | 103.4 | | % | | 80-120 | 24-NOV-22 |
| Iron (Fe)-Dissolved | | | 103.3 | | % | | 80-120 | 24-NOV-22 |
| Lead (Pb)-Dissolved | | | 104.6 | | % | | 80-120 | 24-NOV-22 |
| Lithium (Li)-Dissolved | | | 102.7 | | % | | 80-120 | 24-NOV-22 |
| Magnesium (Mg)-Dissolved | | | 107.9 | | % | | 80-120 | 24-NOV-22 |
| Manganese (Mn)-Dissolved | | | 102.5 | | % | | 80-120 | 24-NOV-22 |
| Molybdenum (Mo)-Dissolved | | | 104.3 | | % | | 80-120 | 24-NOV-22 |
| Nickel (Ni)-Dissolved | | | 105.1 | | % | | 80-120 | 24-NOV-22 |
| Phosphorus (P)-Dissolved | | | 107.9 | | % | | 80-120 | 24-NOV-22 |
| Potassium (K)-Dissolved | | | 105.3 | | % | | 80-120 | 24-NOV-22 |
| Rubidium (Rb)-Dissolved | | | 105.5 | | % | | 80-120 | 24-NOV-22 |
| Selenium (Se)-Dissolved | | | 101.7 | | % | | 80-120 | 24-NOV-22 |
| Silicon (Si)-Dissolved | | | 110.5 | | % | | 60-140 | 24-NOV-22 |
| Silver (Ag)-Dissolved | | | 97.0 | | % | | 80-120 | 24-NOV-22 |
| Sodium (Na)-Dissolved | | | 108.9 | | % | | 80-120 | 24-NOV-22 |
| Strontium (Sr)-Dissolved | | | 105.4 | | % | | 80-120 | 24-NOV-22 |
| Sulfur (S)-Dissolved | | | 100.5 | | % | | 80-120 | 24-NOV-22 |
| Tellurium (Te)-Dissolved | | | 101.3 | | % | | 80-120 | 24-NOV-22 |
| Thallium (Tl)-Dissolved | | | 103.5 | | % | | 80-120 | 24-NOV-22 |
| Thorium (Th)-Dissolved | | | 97.7 | | % | | 80-120 | 24-NOV-22 |
| Tin (Sn)-Dissolved | | | 104.6 | | % | | 80-120 | 24-NOV-22 |
| Titanium (Ti)-Dissolved | | | 101.8 | | % | | 80-120 | 24-NOV-22 |
| Tungsten (W)-Dissolved | | | 104.5 | | % | | 80-120 | 24-NOV-22 |
| Uranium (U)-Dissolved | | | 105.0 | | % | | 80-120 | 24-NOV-22 |
| Vanadium (V)-Dissolved | | | 105.1 | | % | | 80-120 | 24-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-CCMS-WT | | Water | | | | | | |
| Batch | R5897182 | | | | | | | |
| WG3773943-2 | LCS | | | | | | | |
| Zinc (Zn)-Dissolved | | | 111.4 | | % | | 80-120 | 24-NOV-22 |
| Zirconium (Zr)-Dissolved | | | 100.2 | | % | | 80-120 | 24-NOV-22 |
| WG3773943-1 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0050 | | mg/L | | 0.005 | 24-NOV-22 |
| Antimony (Sb)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Arsenic (As)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Barium (Ba)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Beryllium (Be)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Bismuth (Bi)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 24-NOV-22 |
| Boron (B)-Dissolved | | | <0.010 | | mg/L | | 0.01 | 24-NOV-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000050 | | mg/L | | 0.000005 | 24-NOV-22 |
| Calcium (Ca)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 24-NOV-22 |
| Cesium (Cs)-Dissolved | | | <0.000010 | | mg/L | | 0.00001 | 24-NOV-22 |
| Chromium (Cr)-Dissolved | | | <0.00050 | | mg/L | | 0.0005 | 24-NOV-22 |
| Cobalt (Co)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Copper (Cu)-Dissolved | | | <0.00020 | | mg/L | | 0.0002 | 24-NOV-22 |
| Iron (Fe)-Dissolved | | | <0.010 | | mg/L | | 0.01 | 24-NOV-22 |
| Lead (Pb)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 24-NOV-22 |
| Lithium (Li)-Dissolved | | | <0.0010 | | mg/L | | 0.001 | 24-NOV-22 |
| Magnesium (Mg)-Dissolved | | | <0.0050 | | mg/L | | 0.005 | 24-NOV-22 |
| Manganese (Mn)-Dissolved | | | <0.00050 | | mg/L | | 0.0005 | 24-NOV-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 24-NOV-22 |
| Nickel (Ni)-Dissolved | | | <0.00050 | | mg/L | | 0.0005 | 24-NOV-22 |
| Phosphorus (P)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 24-NOV-22 |
| Potassium (K)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 24-NOV-22 |
| Rubidium (Rb)-Dissolved | | | <0.00020 | | mg/L | | 0.0002 | 24-NOV-22 |
| Selenium (Se)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 24-NOV-22 |
| Silicon (Si)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 24-NOV-22 |
| Silver (Ag)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 24-NOV-22 |
| Sodium (Na)-Dissolved | | | <0.050 | | mg/L | | 0.05 | 24-NOV-22 |
| Strontium (Sr)-Dissolved | | | <0.0010 | | mg/L | | 0.001 | 24-NOV-22 |
| Sulfur (S)-Dissolved | | | <0.50 | | mg/L | | 0.5 | 24-NOV-22 |
| Tellurium (Te)-Dissolved | | | <0.00020 | | mg/L | | 0.0002 | 24-NOV-22 |
| Thallium (Tl)-Dissolved | | | <0.000010 | | mg/L | | 0.00001 | 24-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|-----------|-----------|-------|-----|---------|-----------|
| MET-D-CCMS-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5897182 | | | | | | | |
| WG3773943-1 | MB | | | | | | | |
| Thorium (Th)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Tin (Sn)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Titanium (Ti)-Dissolved | | | <0.00030 | | mg/L | | 0.0003 | 24-NOV-22 |
| Tungsten (W)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 24-NOV-22 |
| Uranium (U)-Dissolved | | | <0.000010 | | mg/L | | 0.00001 | 24-NOV-22 |
| Vanadium (V)-Dissolved | | | <0.00050 | | mg/L | | 0.0005 | 24-NOV-22 |
| Zinc (Zn)-Dissolved | | | <0.0010 | | mg/L | | 0.001 | 24-NOV-22 |
| Zirconium (Zr)-Dissolved | | | <0.00020 | | mg/L | | 0.0002 | 24-NOV-22 |
| WG3773943-5 | MS | WG3773943-6 | | | | | | |
| Aluminum (Al)-Dissolved | | | 99.1 | | % | | 70-130 | 24-NOV-22 |
| Antimony (Sb)-Dissolved | | | 102.9 | | % | | 70-130 | 24-NOV-22 |
| Arsenic (As)-Dissolved | | | 117.4 | | % | | 70-130 | 24-NOV-22 |
| Barium (Ba)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Beryllium (Be)-Dissolved | | | 100.5 | | % | | 70-130 | 24-NOV-22 |
| Bismuth (Bi)-Dissolved | | | 93.1 | | % | | 70-130 | 24-NOV-22 |
| Boron (B)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Cadmium (Cd)-Dissolved | | | 101.7 | | % | | 70-130 | 24-NOV-22 |
| Calcium (Ca)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Cesium (Cs)-Dissolved | | | 105.8 | | % | | 70-130 | 24-NOV-22 |
| Chromium (Cr)-Dissolved | | | 100.5 | | % | | 70-130 | 24-NOV-22 |
| Cobalt (Co)-Dissolved | | | 101.5 | | % | | 70-130 | 24-NOV-22 |
| Copper (Cu)-Dissolved | | | 96.7 | | % | | 70-130 | 24-NOV-22 |
| Iron (Fe)-Dissolved | | | 100.1 | | % | | 70-130 | 24-NOV-22 |
| Lead (Pb)-Dissolved | | | 96.3 | | % | | 70-130 | 24-NOV-22 |
| Lithium (Li)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Magnesium (Mg)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Manganese (Mn)-Dissolved | | | 98.6 | | % | | 70-130 | 24-NOV-22 |
| Molybdenum (Mo)-Dissolved | | | 104.1 | | % | | 70-130 | 24-NOV-22 |
| Nickel (Ni)-Dissolved | | | 98.3 | | % | | 70-130 | 24-NOV-22 |
| Phosphorus (P)-Dissolved | | | 118.5 | | % | | 70-130 | 24-NOV-22 |
| Potassium (K)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Rubidium (Rb)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Selenium (Se)-Dissolved | | | 121.7 | | % | | 70-130 | 24-NOV-22 |
| Silicon (Si)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|--------------------|--------------|-----------|-----------|-------|-----------|---------|-----------|
| MET-D-CCMS-WT | | Water | | | | | | |
| Batch | R5897182 | | | | | | | |
| WG3773943-5 MS | WG3773943-6 | | | | | | | |
| Silver (Ag)-Dissolved | | | 86.2 | | % | | 70-130 | 24-NOV-22 |
| Sodium (Na)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Strontium (Sr)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Sulfur (S)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Tellurium (Te)-Dissolved | | | 108.0 | | % | | 70-130 | 24-NOV-22 |
| Thallium (Tl)-Dissolved | | | 96.7 | | % | | 70-130 | 24-NOV-22 |
| Thorium (Th)-Dissolved | | | 93.0 | | % | | 70-130 | 24-NOV-22 |
| Tin (Sn)-Dissolved | | | 102.5 | | % | | 70-130 | 24-NOV-22 |
| Titanium (Ti)-Dissolved | | | 102.2 | | % | | 70-130 | 24-NOV-22 |
| Tungsten (W)-Dissolved | | | 100.7 | | % | | 70-130 | 24-NOV-22 |
| Uranium (U)-Dissolved | | | N/A | MS-B | % | | - | 24-NOV-22 |
| Vanadium (V)-Dissolved | | | 105.7 | | % | | 70-130 | 24-NOV-22 |
| Zinc (Zn)-Dissolved | | | 99.6 | | % | | 70-130 | 24-NOV-22 |
| Zirconium (Zr)-Dissolved | | | 101.0 | | % | | 70-130 | 24-NOV-22 |
| MET-T-CCMS-WT | | Water | | | | | | |
| Batch | R5897016 | | | | | | | |
| WG3773737-4 DUP | WG3773737-3 | | | | | | | |
| Aluminum (Al)-Total | | 0.170 | 0.170 | | mg/L | 0.2 | 20 | 23-NOV-22 |
| Antimony (Sb)-Total | | 0.00183 | 0.00187 | | mg/L | 2.1 | 20 | 23-NOV-22 |
| Arsenic (As)-Total | | 0.00084 | 0.00082 | | mg/L | 2.0 | 20 | 23-NOV-22 |
| Barium (Ba)-Total | | 0.0267 | 0.0272 | | mg/L | 1.8 | 20 | 23-NOV-22 |
| Beryllium (Be)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Bismuth (Bi)-Total | | <0.000050 | <0.000050 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Boron (B)-Total | | 0.042 | 0.042 | | mg/L | 0.7 | 20 | 23-NOV-22 |
| Cadmium (Cd)-Total | | 0.0000070 | 0.0000092 | J | mg/L | 0.0000022 | 0.00001 | 23-NOV-22 |
| Calcium (Ca)-Total | | 54.7 | 54.4 | | mg/L | 0.7 | 20 | 23-NOV-22 |
| Chromium (Cr)-Total | | 0.00055 | 0.00055 | | mg/L | 0.8 | 20 | 23-NOV-22 |
| Cesium (Cs)-Total | | 0.000028 | 0.000032 | | mg/L | 13 | 20 | 23-NOV-22 |
| Cobalt (Co)-Total | | 0.00046 | 0.00044 | | mg/L | 3.7 | 20 | 23-NOV-22 |
| Copper (Cu)-Total | | 0.00098 | 0.00097 | | mg/L | 0.9 | 20 | 23-NOV-22 |
| Iron (Fe)-Total | | 0.358 | 0.344 | | mg/L | 4.0 | 20 | 23-NOV-22 |
| Lead (Pb)-Total | | 0.000122 | 0.000121 | | mg/L | 0.6 | 20 | 23-NOV-22 |
| Lithium (Li)-Total | | 0.0092 | 0.0091 | | mg/L | 1.7 | 20 | 23-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-CCMS-WT | | Water | | | | | | |
| Batch | R5897016 | | | | | | | |
| WG3773737-4 | DUP | WG3773737-3 | | | | | | |
| Magnesium (Mg)-Total | | 21.6 | 21.4 | | mg/L | 0.9 | 20 | 23-NOV-22 |
| Manganese (Mn)-Total | | 0.0400 | 0.0393 | | mg/L | 2.0 | 20 | 23-NOV-22 |
| Molybdenum (Mo)-Total | | 0.00278 | 0.00288 | | mg/L | 3.3 | 20 | 23-NOV-22 |
| Nickel (Ni)-Total | | 0.00159 | 0.00158 | | mg/L | 0.7 | 20 | 23-NOV-22 |
| Phosphorus (P)-Total | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Potassium (K)-Total | | 8.16 | 8.07 | | mg/L | 1.1 | 20 | 23-NOV-22 |
| Rubidium (Rb)-Total | | 0.00516 | 0.00525 | | mg/L | 1.6 | 20 | 23-NOV-22 |
| Selenium (Se)-Total | | 0.000221 | 0.000225 | | mg/L | 1.8 | 20 | 23-NOV-22 |
| Silicon (Si)-Total | | 3.05 | 3.07 | | mg/L | 0.8 | 20 | 23-NOV-22 |
| Silver (Ag)-Total | | <0.000050 | <0.000050 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Sodium (Na)-Total | | 23.7 | 23.6 | | mg/L | 0.6 | 20 | 23-NOV-22 |
| Strontium (Sr)-Total | | 0.247 | 0.255 | | mg/L | 3.0 | 20 | 23-NOV-22 |
| Sulfur (S)-Total | | 46.8 | 46.7 | | mg/L | 0.1 | 20 | 23-NOV-22 |
| Thallium (Tl)-Total | | <0.000010 | <0.000010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Tellurium (Te)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Thorium (Th)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Tin (Sn)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Titanium (Ti)-Total | | 0.00671 | 0.00615 | | mg/L | 8.8 | 20 | 23-NOV-22 |
| Tungsten (W)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| Uranium (U)-Total | | 0.00139 | 0.00137 | | mg/L | 1.4 | 20 | 23-NOV-22 |
| Vanadium (V)-Total | | 0.00075 | 0.00076 | | mg/L | 1.6 | 20 | 23-NOV-22 |
| Zinc (Zn)-Total | | 0.0035 | 0.0034 | | mg/L | 2.8 | 20 | 23-NOV-22 |
| Zirconium (Zr)-Total | | 0.00026 | 0.00026 | | mg/L | 1.8 | 20 | 23-NOV-22 |
| WG3773737-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 105.6 | | % | | 80-120 | 23-NOV-22 |
| Antimony (Sb)-Total | | | 112.0 | | % | | 80-120 | 23-NOV-22 |
| Arsenic (As)-Total | | | 114.9 | | % | | 80-120 | 23-NOV-22 |
| Barium (Ba)-Total | | | 109.6 | | % | | 80-120 | 23-NOV-22 |
| Beryllium (Be)-Total | | | 99.9 | | % | | 80-120 | 23-NOV-22 |
| Bismuth (Bi)-Total | | | 100.9 | | % | | 80-120 | 23-NOV-22 |
| Boron (B)-Total | | | 94.5 | | % | | 80-120 | 23-NOV-22 |
| Cadmium (Cd)-Total | | | 111.4 | | % | | 80-120 | 23-NOV-22 |
| Calcium (Ca)-Total | | | 104.1 | | % | | 80-120 | 23-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------|----------|-----------|-------|-----|--------|-----------|
| MET-T-CCMS-WT | | Water | | | | | | |
| Batch | R5897016 | | | | | | | |
| WG3773737-2 | LCS | | | | | | | |
| Chromium (Cr)-Total | | | 107.3 | | % | | 80-120 | 23-NOV-22 |
| Cesium (Cs)-Total | | | 111.2 | | % | | 80-120 | 23-NOV-22 |
| Cobalt (Co)-Total | | | 107.8 | | % | | 80-120 | 23-NOV-22 |
| Copper (Cu)-Total | | | 105.9 | | % | | 80-120 | 23-NOV-22 |
| Iron (Fe)-Total | | | 106.8 | | % | | 80-120 | 23-NOV-22 |
| Lead (Pb)-Total | | | 106.4 | | % | | 80-120 | 23-NOV-22 |
| Lithium (Li)-Total | | | 94.4 | | % | | 80-120 | 23-NOV-22 |
| Magnesium (Mg)-Total | | | 113.1 | | % | | 80-120 | 23-NOV-22 |
| Manganese (Mn)-Total | | | 108.2 | | % | | 80-120 | 23-NOV-22 |
| Molybdenum (Mo)-Total | | | 108.6 | | % | | 80-120 | 23-NOV-22 |
| Nickel (Ni)-Total | | | 107.3 | | % | | 80-120 | 23-NOV-22 |
| Phosphorus (P)-Total | | | 112.5 | | % | | 80-120 | 23-NOV-22 |
| Potassium (K)-Total | | | 103.4 | | % | | 80-120 | 23-NOV-22 |
| Rubidium (Rb)-Total | | | 112.4 | | % | | 80-120 | 23-NOV-22 |
| Selenium (Se)-Total | | | 112.8 | | % | | 80-120 | 23-NOV-22 |
| Silicon (Si)-Total | | | 107.5 | | % | | 60-140 | 23-NOV-22 |
| Silver (Ag)-Total | | | 100.7 | | % | | 80-120 | 23-NOV-22 |
| Sodium (Na)-Total | | | 108.8 | | % | | 80-120 | 23-NOV-22 |
| Strontium (Sr)-Total | | | 113.8 | | % | | 80-120 | 23-NOV-22 |
| Sulfur (S)-Total | | | 102.0 | | % | | 80-120 | 23-NOV-22 |
| Thallium (Tl)-Total | | | 107.5 | | % | | 80-120 | 23-NOV-22 |
| Tellurium (Te)-Total | | | 109.7 | | % | | 80-120 | 23-NOV-22 |
| Thorium (Th)-Total | | | 103.7 | | % | | 80-120 | 23-NOV-22 |
| Tin (Sn)-Total | | | 110.3 | | % | | 80-120 | 23-NOV-22 |
| Titanium (Ti)-Total | | | 105.2 | | % | | 80-120 | 23-NOV-22 |
| Tungsten (W)-Total | | | 105.6 | | % | | 80-120 | 23-NOV-22 |
| Uranium (U)-Total | | | 110.7 | | % | | 80-120 | 23-NOV-22 |
| Vanadium (V)-Total | | | 108.3 | | % | | 80-120 | 23-NOV-22 |
| Zinc (Zn)-Total | | | 110.4 | | % | | 80-120 | 23-NOV-22 |
| Zirconium (Zr)-Total | | | 108.0 | | % | | 80-120 | 23-NOV-22 |
| WG3773737-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | <0.0050 | | mg/L | | 0.005 | 23-NOV-22 |
| Antimony (Sb)-Total | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Arsenic (As)-Total | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-CCMS-WT | | Water | | | | | | |
| Batch | R5897016 | | | | | | | |
| WG3773737-1 MB | | | | | | | | |
| Barium (Ba)-Total | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Beryllium (Be)-Total | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Bismuth (Bi)-Total | | | <0.000050 | | mg/L | | 0.00005 | 23-NOV-22 |
| Boron (B)-Total | | | <0.010 | | mg/L | | 0.01 | 23-NOV-22 |
| Cadmium (Cd)-Total | | | <0.0000050 | | mg/L | | 0.000005 | 23-NOV-22 |
| Calcium (Ca)-Total | | | <0.050 | | mg/L | | 0.05 | 23-NOV-22 |
| Chromium (Cr)-Total | | | <0.00050 | | mg/L | | 0.0005 | 23-NOV-22 |
| Cesium (Cs)-Total | | | <0.000010 | | mg/L | | 0.00001 | 23-NOV-22 |
| Cobalt (Co)-Total | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Copper (Cu)-Total | | | <0.00050 | | mg/L | | 0.0005 | 23-NOV-22 |
| Iron (Fe)-Total | | | <0.010 | | mg/L | | 0.01 | 23-NOV-22 |
| Lead (Pb)-Total | | | <0.000050 | | mg/L | | 0.00005 | 23-NOV-22 |
| Lithium (Li)-Total | | | <0.0010 | | mg/L | | 0.001 | 23-NOV-22 |
| Magnesium (Mg)-Total | | | <0.0050 | | mg/L | | 0.005 | 23-NOV-22 |
| Manganese (Mn)-Total | | | <0.00050 | | mg/L | | 0.0005 | 23-NOV-22 |
| Molybdenum (Mo)-Total | | | <0.000050 | | mg/L | | 0.00005 | 23-NOV-22 |
| Nickel (Ni)-Total | | | <0.00050 | | mg/L | | 0.0005 | 23-NOV-22 |
| Phosphorus (P)-Total | | | <0.050 | | mg/L | | 0.05 | 23-NOV-22 |
| Potassium (K)-Total | | | <0.050 | | mg/L | | 0.05 | 23-NOV-22 |
| Rubidium (Rb)-Total | | | <0.00020 | | mg/L | | 0.0002 | 23-NOV-22 |
| Selenium (Se)-Total | | | <0.000050 | | mg/L | | 0.00005 | 23-NOV-22 |
| Silicon (Si)-Total | | | <0.10 | | mg/L | | 0.1 | 23-NOV-22 |
| Silver (Ag)-Total | | | <0.000050 | | mg/L | | 0.00005 | 23-NOV-22 |
| Sodium (Na)-Total | | | <0.050 | | mg/L | | 0.05 | 23-NOV-22 |
| Strontium (Sr)-Total | | | <0.0010 | | mg/L | | 0.001 | 23-NOV-22 |
| Sulfur (S)-Total | | | <0.50 | | mg/L | | 0.5 | 23-NOV-22 |
| Thallium (Tl)-Total | | | <0.000010 | | mg/L | | 0.00001 | 23-NOV-22 |
| Tellurium (Te)-Total | | | <0.00020 | | mg/L | | 0.0002 | 23-NOV-22 |
| Thorium (Th)-Total | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Tin (Sn)-Total | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Titanium (Ti)-Total | | | <0.00030 | | mg/L | | 0.0003 | 23-NOV-22 |
| Tungsten (W)-Total | | | <0.00010 | | mg/L | | 0.0001 | 23-NOV-22 |
| Uranium (U)-Total | | | <0.000010 | | mg/L | | 0.00001 | 23-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|----------|-----------|-------|-----|--------|-----------|
| MET-T-CCMS-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5897016 | | | | | | | |
| WG3773737-1 MB | | | | | | | | |
| Vanadium (V)-Total | | | <0.00050 | | mg/L | | 0.0005 | 23-NOV-22 |
| Zinc (Zn)-Total | | | <0.0030 | | mg/L | | 0.003 | 23-NOV-22 |
| Zirconium (Zr)-Total | | | <0.00020 | | mg/L | | 0.0002 | 23-NOV-22 |
| WG3773737-5 MS | | WG3773737-6 | | | | | | |
| Aluminum (Al)-Total | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Antimony (Sb)-Total | | | 101.7 | | % | | 70-130 | 23-NOV-22 |
| Arsenic (As)-Total | | | 103.4 | | % | | 70-130 | 23-NOV-22 |
| Barium (Ba)-Total | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Beryllium (Be)-Total | | | 88.4 | | % | | 70-130 | 23-NOV-22 |
| Bismuth (Bi)-Total | | | 92.3 | | % | | 70-130 | 23-NOV-22 |
| Boron (B)-Total | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Cadmium (Cd)-Total | | | 98.0 | | % | | 70-130 | 23-NOV-22 |
| Calcium (Ca)-Total | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Chromium (Cr)-Total | | | 95.4 | | % | | 70-130 | 23-NOV-22 |
| Cesium (Cs)-Total | | | 105.8 | | % | | 70-130 | 23-NOV-22 |
| Cobalt (Co)-Total | | | 95.2 | | % | | 70-130 | 23-NOV-22 |
| Copper (Cu)-Total | | | 91.1 | | % | | 70-130 | 23-NOV-22 |
| Iron (Fe)-Total | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Lead (Pb)-Total | | | 95.6 | | % | | 70-130 | 23-NOV-22 |
| Lithium (Li)-Total | | | 82.0 | | % | | 70-130 | 23-NOV-22 |
| Magnesium (Mg)-Total | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Manganese (Mn)-Total | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Molybdenum (Mo)-Total | | | 103.2 | | % | | 70-130 | 23-NOV-22 |
| Nickel (Ni)-Total | | | 92.9 | | % | | 70-130 | 23-NOV-22 |
| Phosphorus (P)-Total | | | 94.0 | | % | | 70-130 | 23-NOV-22 |
| Potassium (K)-Total | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Rubidium (Rb)-Total | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Selenium (Se)-Total | | | 102.6 | | % | | 70-130 | 23-NOV-22 |
| Silicon (Si)-Total | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Silver (Ag)-Total | | | 90.3 | | % | | 70-130 | 23-NOV-22 |
| Sodium (Na)-Total | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Strontium (Sr)-Total | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Sulfur (S)-Total | | | N/A | MS-B | % | | - | 23-NOV-22 |
| Thallium (Tl)-Total | | | 94.8 | | % | | 70-130 | 23-NOV-22 |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| TURBIDITY-TB Water | | | | | | | | |
| Batch | R5894598 | | | | | | | |
| WG3773365-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 19-NOV-22 |
| ACY-MISA-TB Effluent | | | | | | | | |
| Batch | R5897902 | | | | | | | |
| WG3773366-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 97.7 | | % | | 85-115 | 24-NOV-22 |
| WG3773366-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | 1.4 | | mg/L | | 3 | 24-NOV-22 |
| ALK-MISA-TB Effluent | | | | | | | | |
| Batch | R5896636 | | | | | | | |
| WG3773364-2 | LCS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 99.95 | | % | | 85-115 | 22-NOV-22 |
| WG3773364-1 | MB | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 0.6 | | mg/L | | 2 | 22-NOV-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 22-NOV-22 |
| CN-FREE-MISA-CFA-WT Effluent | | | | | | | | |
| Batch | R5896943 | | | | | | | |
| WG3773760-3 | DUP | WG3773760-5 | | | | | | |
| Cyanide, Free | | 0.0005 | 0.0005 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| WG3773760-2 | LCS | | | | | | | |
| Cyanide, Free | | | 102.8 | | % | | 80-120 | 23-NOV-22 |
| WG3773760-1 | MB | | | | | | | |
| Cyanide, Free | | | 0.0002 | | mg/L | | 0.002 | 23-NOV-22 |
| WG3773760-4 | MS | WG3773760-5 | | | | | | |
| Cyanide, Free | | | 110.0 | | % | | 75-125 | 23-NOV-22 |
| CN-T-MISA-CFA-WT Effluent | | | | | | | | |
| Batch | R5896943 | | | | | | | |
| WG3773760-3 | DUP | WG3773760-5 | | | | | | |
| Cyanide, Total | | 0.0014 | 0.0010 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| WG3773760-2 | LCS | | | | | | | |
| Cyanide, Total | | | 100.3 | | % | | 80-120 | 23-NOV-22 |
| WG3773760-1 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 23-NOV-22 |
| WG3773760-4 | MS | WG3773760-5 | | | | | | |
| Cyanide, Total | | | 101.5 | | % | | 75-125 | 23-NOV-22 |
| CN-WAD-MISA-CFA-WT Effluent | | | | | | | | |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|-----------|-----------|-------|-----|----------|-----------|
| CN-WAD-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5896943 | | | | | | | |
| WG3773760-3 | DUP | WG3773760-5 | | | | | | |
| Cyanide, Weak Acid Diss | | 0.0006 | 0.0005 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| WG3773760-2 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 112.1 | | % | | 80-120 | 23-NOV-22 |
| WG3773760-1 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 23-NOV-22 |
| WG3773760-4 | MS | WG3773760-5 | | | | | | |
| Cyanide, Weak Acid Diss | | | 117.3 | | % | | 75-125 | 23-NOV-22 |
| DOC-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5899038 | | | | | | | |
| WG3773872-3 | DUP | WG3773872-5 | | | | | | |
| Dissolved Organic Carbon | | 6.68 | 6.96 | | mg/L | 4.2 | 25 | 28-NOV-22 |
| WG3773872-2 | LCS | | | | | | | |
| Dissolved Organic Carbon | | | 94.8 | | % | | 70-130 | 28-NOV-22 |
| WG3773872-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 28-NOV-22 |
| EC-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5896636 | | | | | | | |
| WG3773364-2 | LCS | | | | | | | |
| Conductivity (EC) | | | 96.9 | | % | | 90-110 | 22-NOV-22 |
| WG3773364-1 | MB | | | | | | | |
| Conductivity (EC) | | | 0.4 | | uS/cm | | 2 | 22-NOV-22 |
| HG-DIS-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5896896 | | | | | | | |
| WG3773862-3 | DUP | L2740858-1 | | | | | | |
| Mercury (Hg)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| WG3773862-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 101.0 | | % | | 80-120 | 23-NOV-22 |
| WG3773862-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.000005 | 23-NOV-22 |
| WG3773862-4 | MS | L2740858-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 95.2 | | % | | 70-130 | 23-NOV-22 |
| HG-TOT-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5896397 | | | | | | | |
| WG3773690-3 | DUP | L2740858-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 23-NOV-22 |
| WG3773690-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L2740868

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-------------------|-----------|-----------|-------|-----|----------|-----------|
| HG-TOT-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5896397 | | | | | | | |
| WG3773690-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 101.0 | | % | | 80-120 | 23-NOV-22 |
| WG3773690-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.000005 | 23-NOV-22 |
| WG3773690-4 | MS | L2740858-2 | | | | | | |
| Mercury (Hg)-Total | | | 100.8 | | % | | 70-130 | 23-NOV-22 |
| NH3-MISA-F-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5895719 | | | | | | | |
| WG3773357-2 | LCS | | | | | | | |
| Ammonia, Total (as N) | | | 98.1 | | % | | 85-115 | 21-NOV-22 |
| WG3773357-1 | MB | | | | | | | |
| Ammonia, Total (as N) | | | <0.002 | | mg/L | | 0.005 | 21-NOV-22 |
| NO2-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5895440 | | | | | | | |
| WG3773370-2 | LCS | | | | | | | |
| Nitrite (as N) | | | 105.3 | | % | | 90-110 | 20-NOV-22 |
| WG3773370-1 | MB | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 20-NOV-22 |
| NO3-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5895440 | | | | | | | |
| WG3773370-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 102.2 | | % | | 90-110 | 20-NOV-22 |
| WG3773370-1 | MB | | | | | | | |
| Nitrate (as N) | | | <0.002 | | mg/L | | 0.02 | 20-NOV-22 |
| OGG-TOT-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5896558 | | | | | | | |
| WG3773740-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 96.5 | | % | | 50-150 | 23-NOV-22 |
| WG3773740-1 | MB | | | | | | | |
| Oil and Grease, Total | | | 1.0 | | mg/L | | 1 | 23-NOV-22 |
| PH-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5896636 | | | | | | | |
| WG3773364-2 | LCS | | | | | | | |
| pH | | | 6.94 | | pH | | 6.9-7.1 | 22-NOV-22 |
| SO4-MISA-IC-TB | | | | | | | | |
| | Effluent | | | | | | | |



Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| SO4-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5895440 | | | | | | | |
| WG3773370-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 104.1 | | % | | 90-110 | 20-NOV-22 |
| WG3773370-1 | MB | | | | | | | |
| Sulfate (SO4) | | | <0.05 | | mg/L | | 0.3 | 20-NOV-22 |
| TDS-MISA-TB | | Effluent | | | | | | |
| Batch | R5895096 | | | | | | | |
| WG3773343-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 99.5 | | % | | 85-115 | 19-NOV-22 |
| WG3773343-1 | MB | | | | | | | |
| Total Dissolved Solids | | | 2 | | mg/L | | 10 | 19-NOV-22 |
| TKN-WT | | Effluent | | | | | | |
| Batch | R5898158 | | | | | | | |
| WG3774060-3 | DUP | WG3774060-5 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.05 | 0.95 | | mg/L | 6.2 | 20 | 25-NOV-22 |
| WG3774060-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 114.3 | | % | | 75-125 | 25-NOV-22 |
| WG3774060-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.05 | | mg/L | | 0.18 | 25-NOV-22 |
| WG3774060-4 | MS | WG3774060-5 | | | | | | |
| Total Kjeldahl Nitrogen | | | 110.2 | | % | | 70-130 | 25-NOV-22 |
| TSS-MISA-TB | | Effluent | | | | | | |
| Batch | R5895057 | | | | | | | |
| WG3773344-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 104.0 | | % | | 85-115 | 19-NOV-22 |
| WG3773344-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 19-NOV-22 |

Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

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Contact: Garnet Cornell

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <W | No Measurable Response (Zero): < Reported Value |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0
 Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|--|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Colour, True | | | | | | | |
| | 1 | 12-NOV-22 10:50 | 19-NOV-22 13:00 | 3 | 7 | days | EHTR |
| | 3 | 12-NOV-22 11:00 | 19-NOV-22 13:00 | 3 | 7 | days | EHTR |
| | 5 | 12-NOV-22 11:35 | 19-NOV-22 13:00 | 3 | 7 | days | EHTR |
| | 6 | 12-NOV-22 11:55 | 19-NOV-22 13:00 | 3 | 7 | days | EHTR |
| | 7 | 12-NOV-22 13:45 | 19-NOV-22 13:00 | 3 | 7 | days | EHTR |
| | 8 | 12-NOV-22 15:15 | 19-NOV-22 13:00 | 3 | 7 | days | EHTR |
| | 9 | 12-NOV-22 | 19-NOV-22 13:00 | 3 | 7 | days | EHTR |
| Conductivity (EC) | | | | | | | |
| | 1 | 12-NOV-22 10:50 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| | 3 | 12-NOV-22 11:00 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| | 5 | 12-NOV-22 11:35 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| | 6 | 12-NOV-22 11:55 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| | 7 | 12-NOV-22 13:45 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| | 8 | 12-NOV-22 15:15 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| | 9 | 12-NOV-22 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| Turbidity | | | | | | | |
| | 1 | 12-NOV-22 10:50 | 19-NOV-22 13:10 | 3 | 7 | days | EHTR |
| | 3 | 12-NOV-22 11:00 | 19-NOV-22 13:10 | 3 | 7 | days | EHTR |
| | 5 | 12-NOV-22 11:35 | 19-NOV-22 13:10 | 3 | 7 | days | EHTR |
| | 6 | 12-NOV-22 11:55 | 19-NOV-22 13:10 | 3 | 7 | days | EHTR |
| | 7 | 12-NOV-22 13:45 | 19-NOV-22 13:10 | 3 | 7 | days | EHTR |
| | 8 | 12-NOV-22 15:15 | 19-NOV-22 13:10 | 3 | 7 | days | EHTR |
| | 9 | 12-NOV-22 | 19-NOV-22 13:10 | 3 | 7 | days | EHTR |
| pH | | | | | | | |
| | 1 | 12-NOV-22 10:50 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| | 3 | 12-NOV-22 11:00 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| | 5 | 12-NOV-22 11:35 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| | 6 | 12-NOV-22 11:55 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| | 7 | 12-NOV-22 13:45 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| | 8 | 12-NOV-22 15:15 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| | 9 | 12-NOV-22 | 19-NOV-22 13:00 | 4 | 7 | days | EHTR |
| Leachable Anions & Nutrients | | | | | | | |
| Nitrate in Water by IC | | | | | | | |
| | 1 | 12-NOV-22 10:50 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| | 3 | 12-NOV-22 11:00 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| | 5 | 12-NOV-22 11:35 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| | 6 | 12-NOV-22 11:55 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| | 7 | 12-NOV-22 13:45 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| | 8 | 12-NOV-22 15:15 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| | 9 | 12-NOV-22 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| Nitrite in Water by IC | | | | | | | |
| | 1 | 12-NOV-22 10:50 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| | 3 | 12-NOV-22 11:00 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| | 5 | 12-NOV-22 11:35 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| | 6 | 12-NOV-22 11:55 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| | 7 | 12-NOV-22 13:45 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| | 8 | 12-NOV-22 15:15 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| | 9 | 12-NOV-22 | 19-NOV-22 13:00 | 5 | 7 | days | EHTR |
| Cyanides | | | | | | | |
| Free Cyanide by Continuous Flow Analyzer | | | | | | | |

Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0
 Contact: Garnet Cornell

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|--|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Cyanides | | | | | | | |
| Free Cyanide by Continuous Flow Analyzer | | | | | | | |
| | 1 | 12-NOV-22 10:50 | 23-NOV-22 00:00 | 7 | 11 | days | EHTL |
| | 3 | 12-NOV-22 11:00 | 23-NOV-22 00:00 | 7 | 11 | days | EHTL |
| | 5 | 12-NOV-22 11:35 | 23-NOV-22 00:00 | 7 | 11 | days | EHT |
| | 6 | 12-NOV-22 11:55 | 23-NOV-22 00:00 | 7 | 11 | days | EHT |
| | 7 | 12-NOV-22 13:45 | 23-NOV-22 00:00 | 7 | 10 | days | EHT |
| | 8 | 12-NOV-22 15:15 | 23-NOV-22 00:00 | 7 | 10 | days | EHT |
| | 9 | 12-NOV-22 | 23-NOV-22 00:00 | 7 | 11 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon for MISA | | | | | | | |
| | 1 | 12-NOV-22 10:50 | 23-NOV-22 00:00 | 3 | 11 | days | EHTR |
| | 3 | 12-NOV-22 11:00 | 23-NOV-22 00:00 | 3 | 11 | days | EHTR |
| | 5 | 12-NOV-22 11:35 | 23-NOV-22 00:00 | 3 | 11 | days | EHTR |
| | 6 | 12-NOV-22 11:55 | 23-NOV-22 00:00 | 3 | 11 | days | EHTR |
| | 7 | 12-NOV-22 13:45 | 23-NOV-22 00:00 | 3 | 10 | days | EHTR |
| | 8 | 12-NOV-22 15:15 | 23-NOV-22 00:00 | 3 | 10 | days | EHTR |
| Metals | | | | | | | |
| Dissolved Orthophosphate | | | | | | | |
| | 7 | 12-NOV-22 13:45 | 23-NOV-22 16:00 | 7 | 11 | days | EHT |
| | 8 | 12-NOV-22 15:15 | 23-NOV-22 16:00 | 7 | 11 | days | EHT |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand (BOD) | | | | | | | |
| | 1 | 12-NOV-22 10:50 | 19-NOV-22 10:35 | 4 | 7 | days | EHTR |
| | 3 | 12-NOV-22 11:00 | 19-NOV-22 10:35 | 4 | 7 | days | EHTR |
| | 5 | 12-NOV-22 11:35 | 19-NOV-22 10:35 | 4 | 7 | days | EHTR |
| | 6 | 12-NOV-22 11:55 | 19-NOV-22 10:35 | 4 | 7 | days | EHTR |
| | 7 | 12-NOV-22 13:45 | 19-NOV-22 10:35 | 4 | 7 | days | EHTR |
| | 8 | 12-NOV-22 15:15 | 19-NOV-22 10:35 | 4 | 7 | days | EHTR |
| | 9 | 12-NOV-22 | 19-NOV-22 10:35 | 4 | 7 | days | EHTR |

Legend & Qualifier Definitions:

- EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
- EHTR: Exceeded ALS recommended hold time prior to sample receipt.
- EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
- EHT: Exceeded ALS recommended hold time prior to analysis.
- Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2740868 were received on 18-NOV-22 11:15.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

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Contact: Garnet Cornell

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



CHAIN OF CUSTODY RECORD - ALS-448776868

12-4-10-868

| | | | | | | | | | | | | | | | | | |
|---|-------------------------------|---------------------|-----------------|---------------|------------------|---------------|----------------|---|--|--|--|--|--|--|--|----------------------|----------|
| Project Name: Rainy River | | | | | | Containers | | | | | | | | | | | |
| Location: Chapple | | | | | | SW Kit | Ra-226 Bottle | | | | | | | | | | |
| Project Number: | | | | | | Filtered | N | N | | | | | | | | | |
| Project Manager: | | | | | | | | | | | | | | | | | |
| PO Number: | | | | | | | | | | | | | | | | | |
| Project: | | | | | | Preservatives | | | | | | | | | | | |
| Turn Around Time (days): 10 Business Days | | | | | | | | | | | | | | | | | |
| Shipping Company: | | | | | | | | | | | | | | | | | |
| Shipping Date: 11/12/2022 4:29:00 PM | | | | | | | | | | | | | | | | | |
| COC Number: ALS-448776868 | | | | | | | | | | | | | | | | | |
| | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MIMER-BE | | | | | | | | | Number of Containers | Comments |
| | SW22A_SW_20221108 | 11.26 | 7.01 | 1.08 | 11/11/2022 16:40 | SW | X | | | | | | | | | 12 | |
| 1 | SW23_SW_20221108 | 12.47 | 6.99 | 2.25 | 11/12/2022 10:50 | SW | X | | | | | | | | | 12 | |
| 2 | SW23_SW_20221108 | 12.47 | 6.99 | 2.25 | 11/12/2022 10:50 | SW | X | | | | | | | | | 12 | |
| 3 | SW24_SW_20221108 | 10.8 | 6.97 | 1.77 | 11/12/2022 11:00 | SW | X | | | | | | | | | 12 | |
| 4 | SW24_SW_20221108 | 10.8 | 6.97 | 1.77 | 11/12/2022 11:00 | SW | X | | | | | | | | | 12 | |
| 5 | SW15_SW_20221108 | 12.35 | 7.08 | 1.32 | 11/12/2022 11:35 | SW | X | | | | | | | | | 11 | |

| | | | | | | | | | |
|----------------|--|-----------------------|--|---|--|--------|--|-----------------------------------|--|
| Signature | | Data/Time | | Shipping Details | | ATTN | | Special Instructions: | |
| Shipped by | | 11/12/2022 4:29:00 PM | | Method of Shipment: Courier | | | | Email Invoice to: | |
| | | | | On Ice: <input checked="" type="radio"/> yes <input type="radio"/> no | | 16.3°C | | rainyriver.accounts1@newgold.com | |
| | | | | Shipped: Air/Ground | | 18.4°C | | Email Report to: | |
| Received by LV | | 11/18/22 11:15 | | Lab Name: ALS Thunder Bay | | | | rainyriver.labresults@newgold.com | |
| | | | | Lab Phone: | | | | | |

Avg Temp 16.3°C 3 samples Mon 11/14/22



| | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------|---------------------|-----------------|---------------|------------------|---|---------------|--------|---------------|--|--|--|--|--|--|--|--|----------------------|----------|--|
| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: | | | | | | Containers Filtered Preservatives | | SW Kit | Ra-226 Bottle | | | | | | | | | | | |
| Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 11/12/2022 4:29:00 PM COC Number: ALS-448776868 | | | | | | | | | | | | | | | | | | | | |
| | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | | Number of Containers | Comments | |
| 6 | SW17_SW_20221108 | 13.82 | 6.78 | 3.57 | 11/12/2022 11:55 | SW | X | | | | | | | | | | | 11 | | |
| 7 | SW16_SW_20221108 | 13.89 | 7.12 | 4.03 | 11/12/2022 13:45 | SW | X | | | | | | | | | | | 11 | | |
| 8 | SW03_SW_20221108 | 12.42 | 7.1 | 2.22 | 11/12/2022 15:15 | SW | X | | | | | | | | | | | 11 | | |
| | TB_SW_20221108 | | | | 11/17/2022 12:00 | SW | X | | | | | | | | | | | 11 | | |

Sample Receipt Details (ALS use only)

| | | | | |
|----------------|-----------------------|---|------|--|
| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
| Shipped by | 11/12/2022 4:29:00 PM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by LV | 11/18/22 11:15 | Lab Name: ALS Thunder Bay Lab Phone: | | |

10.4°



10740888 0050

CHAIN OF CUSTODY RECORD - ALS-448776868

| |
|--|
| Drinking Water (DW) Samples (client use) |
| Are samples taken from a Regulated DW System? Yes <input checked="" type="checkbox"/> No |
| Are samples for human consumption / use? Yes <input checked="" type="checkbox"/> No |
| Samples from a Regulated DW System require an Authorized DW COC form |

| | |
|--|------------------------------|
| Cooling Method: <input type="checkbox"/> None <input type="checkbox"/> Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Frozen <input type="checkbox"/> Cooling Initiated | |
| Submission Comments identified on Sample Receipt Notification: <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Cooler Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA Sample Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA | |
| Initial Cooler Temperatures °C | Final Cooler Temperatures °C |
| | |

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-----------------------|-----------------------|---|------|--|
| Shipped by | 11/12/2022 4:29:00 PM | Method of Shipment: Courier On Ice: <u>yes</u> / no Shipped: Air/Ground | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by <i>LV</i> | <i>11/18/22 11:15</i> | Lab Name: ALS Thunder Bay Lab Phone: | | |

10.4 c



New Gold Inc. Rainy River Project
ATTN: Garnet Cornell
24 Marr Rd
Barwick ON POW 1A0

Date Received: 13-DEC-22
Report Date: 09-JAN-23 14:26 (MT)
Version: FINAL

Client Phone: 807-234-8200

Certificate of Analysis

Lab Work Order #: L2743056
Project P.O. #: 4500062842
Job Reference: SURFACE WATER
C of C Numbers:
Legal Site Desc:

<original signed by>

Christine Paradis
Project Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2743056-1 SW15_SW_20221210 | | | | | | | |
| Sampled By: Client on 10-DEC-22 @ 11:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 7.23 | | 0 | mg/L | | 16-DEC-22 | R5907998 |
| pH, Client Supplied | 7.5 | | 0.10 | pH | | 16-DEC-22 | R5907998 |
| Temperature, Client Supplied | 1.74 | | 0 | Degree C | | 16-DEC-22 | R5907998 |
| Physical Tests | | | | | | | |
| Color, True | 152 | | 2.0 | CU | | 14-DEC-22 | R5906761 |
| Conductivity (EC) | 273 | | 1.0 | uS/cm | | 14-DEC-22 | R5907083 |
| Hardness (as CaCO3) | 142 | | 0.51 | mg/L | | 19-DEC-22 | |
| pH | 7.26 | | 0.10 | pH | | 14-DEC-22 | R5907083 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 15-DEC-22 | R5907877 |
| Total Dissolved Solids | 220 | | 20 | mg/L | | 15-DEC-22 | R5907878 |
| Turbidity | 11.9 | | 0.10 | NTU | | 14-DEC-22 | R5906797 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.6 | | 2.0 | mg/L | | 17-DEC-22 | R5908837 |
| Alkalinity, Total (as CaCO3) | 135 | | 2.0 | mg/L | | 14-DEC-22 | R5907083 |
| Ammonia, Total (as N) | 0.032 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908216 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 19-DEC-22 | |
| Chloride (Cl) | 5.69 | | 0.10 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Fluoride (F) | 0.038 | | 0.020 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Nitrate (as N) | 0.068 | <T | 0.020 | mg/L | | 14-DEC-22 | R5907116 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-DEC-22 | R5907116 |
| Total Kjeldahl Nitrogen | 1.19 | | 0.050 | mg/L | 14-DEC-22 | 15-DEC-22 | R5907876 |
| Orthophosphate-Dissolved (as P) | 0.0064 | | 0.0010 | mg/L | 14-DEC-22 | 16-DEC-22 | R5907716 |
| Sulfate (SO4) | 8.25 | | 0.30 | mg/L | | 14-DEC-22 | R5907116 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Total | 0.0002 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 20-DEC-22 | R5908856 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 31.9 | | 0.50 | mg/L | 15-DEC-22 | 23-DEC-22 | R5911499 |
| Total Organic Carbon | 33.6 | | 0.50 | mg/L | | 21-DEC-22 | R5910216 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.412 | | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Antimony (Sb)-Total | 0.000195 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908436 |
| Arsenic (As)-Total | 0.00104 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Barium (Ba)-Total | 0.0196 | | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Beryllium (Be)-Total | 0.0000221 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Boron (B)-Total | 0.0120 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Cadmium (Cd)-Total | 0.000022 | <T | 0.000017 | mg/L | | 16-DEC-22 | R5908436 |
| Calcium (Ca)-Total | 34.7 | | 0.20 | mg/L | | 16-DEC-22 | R5908436 |
| Cesium (Cs)-Total | 0.0000615 | | 0.000010 | mg/L | | 16-DEC-22 | R5908436 |
| Chromium (Cr)-Total | 0.00104 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-1 SW15_SW_20221210 | | | | | | | |
| Sampled By: Client on 10-DEC-22 @ 11:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Cobalt (Co)-Total | 0.000350 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908436 |
| Copper (Cu)-Total | 0.00160 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Iron (Fe)-Total | 0.903 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Lead (Pb)-Total | 0.00383 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Lithium (Li)-Total | 0.0056 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Magnesium (Mg)-Total | 14.7 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Manganese (Mn)-Total | 0.0480 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908978 |
| Molybdenum (Mo)-Total | 0.000435 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Nickel (Ni)-Total | 0.00190 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Phosphorus (P)-Total | 0.025 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Potassium (K)-Total | 2.00 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Rubidium (Rb)-Total | 0.00233 | | 0.00020 | mg/L | | 16-DEC-22 | R5908436 |
| Selenium (Se)-Total | 0.000165 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Silicon (Si)-Total | 7.05 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Sodium (Na)-Total | 5.39 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Strontium (Sr)-Total | 0.0895 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Sulfur (S)-Total | 2.8 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 16-DEC-22 | R5908436 |
| Thorium (Th)-Total | 0.00010 | | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Tin (Sn)-Total | 0.00007 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Titanium (Ti)-Total | 0.0143 | | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Uranium (U)-Total | 0.000510 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Vanadium (V)-Total | 0.00135 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Zinc (Zn)-Total | 0.0065 | <T | 0.0030 | mg/L | | 16-DEC-22 | R5908436 |
| Zirconium (Zr)-Total | 0.000592 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-DEC-22 | R5908318 |
| Aluminum (Al)-Dissolved | 0.0506 | | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Antimony (Sb)-Dissolved | 0.000175 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908479 |
| Arsenic (As)-Dissolved | 0.000981 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Barium (Ba)-Dissolved | 0.0158 | | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Beryllium (Be)-Dissolved | 0.000014 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Bismuth (Bi)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Boron (B)-Dissolved | 0.0125 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Cadmium (Cd)-Dissolved | 0.0000140 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908479 |
| Calcium (Ca)-Dissolved | 32.6 | | 0.20 | mg/L | | 16-DEC-22 | R5908479 |
| Cesium (Cs)-Dissolved | 0.0000040 | <DL | 0.000010 | mg/L | | 16-DEC-22 | R5908479 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-1 SW15_SW_20221210 Sampled By: Client on 10-DEC-22 @ 11:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Chromium (Cr)-Dissolved | 0.00019 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Cobalt (Co)-Dissolved | 0.000156 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908479 |
| Copper (Cu)-Dissolved | 0.00124 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Iron (Fe)-Dissolved | 0.382 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Lead (Pb)-Dissolved | 0.00009 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Lithium (Li)-Dissolved | 0.0064 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Magnesium (Mg)-Dissolved | 14.6 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Manganese (Mn)-Dissolved | 0.0385 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908980 |
| Molybdenum (Mo)-Dissolved | 0.000398 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Nickel (Ni)-Dissolved | 0.00128 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Phosphorus (P)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Potassium (K)-Dissolved | 1.88 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Rubidium (Rb)-Dissolved | 0.00139 | | 0.00020 | mg/L | | 16-DEC-22 | R5908479 |
| Selenium (Se)-Dissolved | 0.000165 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Silicon (Si)-Dissolved | 6.47 | | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Sodium (Na)-Dissolved | 5.20 | | 0.10 | mg/L | | 16-DEC-22 | R5908479 |
| Strontium (Sr)-Dissolved | 0.0860 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Sulfur (S)-Dissolved | 3.0 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908479 |
| Thorium (Th)-Dissolved | 0.00006 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Tin (Sn)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Titanium (Ti)-Dissolved | 0.00254 | | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Uranium (U)-Dissolved | 0.000445 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Vanadium (V)-Dissolved | 0.00056 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Zinc (Zn)-Dissolved | 0.0042 | <T | 0.0030 | mg/L | | 16-DEC-22 | R5908479 |
| Zirconium (Zr)-Dissolved | 0.000410 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-DEC-22 | R5908599 |
| Chemical Oxygen Demand | 105 | | 10 | mg/L | 14-DEC-22 | 17-DEC-22 | R5908136 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 20-DEC-22 | 20-DEC-22 | R5911738 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2743056-2 FB_SW_20221210 Sampled By: Client on 10-DEC-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | <2.0 | | 2.0 | CU | | 14-DEC-22 | R5906761 |
| Conductivity (EC) | <0.2 | <W | 1.0 | uS/cm | | 14-DEC-22 | R5907083 |
| Hardness (as CaCO3) | <0.51 | | 0.51 | mg/L | | 19-DEC-22 | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-2 FB_SW_20221210 | | | | | | | |
| Sampled By: Client on 10-DEC-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| pH | 5.40 | | 0.10 | pH | | 14-DEC-22 | R5907083 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 15-DEC-22 | R5907877 |
| Total Dissolved Solids | <2 | <W | 10 | mg/L | | 15-DEC-22 | R5907878 |
| Turbidity | <0.10 | | 0.10 | NTU | | 14-DEC-22 | R5906797 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 17-DEC-22 | R5908837 |
| Alkalinity, Total (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 14-DEC-22 | R5907083 |
| Ammonia, Total (as N) | <0.002 | <W | 0.0050 | mg/L | | 16-DEC-22 | R5908216 |
| Chloride (Cl) | <0.10 | | 0.10 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Fluoride (F) | <0.020 | | 0.020 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Nitrate (as N) | 0.002 | <DL | 0.020 | mg/L | | 14-DEC-22 | R5907116 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-DEC-22 | R5907116 |
| Total Kjeldahl Nitrogen | <0.050 | | 0.050 | mg/L | 21-DEC-22 | 22-DEC-22 | R5910196 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 14-DEC-22 | 16-DEC-22 | R5907716 |
| Sulfate (SO4) | <0.05 | <W | 0.30 | mg/L | | 14-DEC-22 | R5907116 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 20-DEC-22 | R5908856 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | <0.50 | | 0.50 | mg/L | 15-DEC-22 | 23-DEC-22 | R5911499 |
| Total Organic Carbon | <0.50 | | 0.50 | mg/L | | 21-DEC-22 | R5910216 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0010 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Antimony (Sb)-Total | 0.000010 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908436 |
| Arsenic (As)-Total | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Barium (Ba)-Total | 0.00005 | <DL | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Beryllium (Be)-Total | <0.0000001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Boron (B)-Total | 0.0010 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Cadmium (Cd)-Total | <0.000001 | <W | 0.000017 | mg/L | | 16-DEC-22 | R5908436 |
| Calcium (Ca)-Total | 0.030 | <DL | 0.20 | mg/L | | 16-DEC-22 | R5908436 |
| Cesium (Cs)-Total | <0.0000005 | <W | 0.000010 | mg/L | | 16-DEC-22 | R5908436 |
| Chromium (Cr)-Total | 0.00014 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Cobalt (Co)-Total | <0.000005 | <W | 0.00050 | mg/L | | 16-DEC-22 | R5908436 |
| Copper (Cu)-Total | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Iron (Fe)-Total | 0.0015 | <DL | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Lead (Pb)-Total | 0.00002 | <DL | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Lithium (Li)-Total | <0.0002 | <W | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Magnesium (Mg)-Total | 0.0008 | <DL | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Manganese (Mn)-Total | <0.0002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 20-DEC-22 | R5908978 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|----------|-------|-----------|-----------|----------|
| L2743056-2 FB_SW_20221210 | | | | | | | |
| Sampled By: Client on 10-DEC-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Molybdenum (Mo)-Total | 0.000025 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Nickel (Ni)-Total | <0.00002 | <W | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Potassium (K)-Total | 0.02 | <DL | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Rubidium (Rb)-Total | 0.000006 | <DL | 0.00020 | mg/L | | 16-DEC-22 | R5908436 |
| Selenium (Se)-Total | <0.000005 | <W | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Silicon (Si)-Total | 0.082 | <DL | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Sodium (Na)-Total | 0.055 | <DL | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Strontium (Sr)-Total | 0.000045 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908436 |
| Thorium (Th)-Total | <0.00001 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Tin (Sn)-Total | 0.00007 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Titanium (Ti)-Total | 0.00003 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Uranium (U)-Total | <0.0000005 | <W | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Vanadium (V)-Total | <0.00005 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Zinc (Zn)-Total | <0.0005 | <W | 0.0030 | mg/L | | 16-DEC-22 | R5908436 |
| Zirconium (Zr)-Total | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-DEC-22 | R5908318 |
| Aluminum (Al)-Dissolved | 0.0010 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Antimony (Sb)-Dissolved | <0.000005 | <W | 0.00060 | mg/L | | 16-DEC-22 | R5908479 |
| Arsenic (As)-Dissolved | 0.0000072 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Barium (Ba)-Dissolved | 0.000010 | <DL | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Boron (B)-Dissolved | 0.0010 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Cadmium (Cd)-Dissolved | 0.0000030 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908479 |
| Calcium (Ca)-Dissolved | 0.034 | <DL | 0.20 | mg/L | | 16-DEC-22 | R5908479 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 16-DEC-22 | R5908479 |
| Chromium (Cr)-Dissolved | 0.00012 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Cobalt (Co)-Dissolved | <0.000002 | <W | 0.00050 | mg/L | | 16-DEC-22 | R5908479 |
| Copper (Cu)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Iron (Fe)-Dissolved | <0.0005 | <W | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Lithium (Li)-Dissolved | <0.0002 | <W | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Magnesium (Mg)-Dissolved | 0.0030 | <DL | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Manganese (Mn)-Dissolved | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-2 FB_SW_20221210 Sampled By: Client on 10-DEC-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908980 |
| Molybdenum (Mo)-Dissolved | 0.000034 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Nickel (Ni)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Potassium (K)-Dissolved | <0.01 | <W | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Rubidium (Rb)-Dissolved | <0.000002 | <W | 0.00020 | mg/L | | 16-DEC-22 | R5908479 |
| Selenium (Se)-Dissolved | <0.000005 | <W | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Silicon (Si)-Dissolved | 0.085 | | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Sodium (Na)-Dissolved | 0.055 | <DL | 0.10 | mg/L | | 16-DEC-22 | R5908479 |
| Strontium (Sr)-Dissolved | 0.00010 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908479 |
| Thorium (Th)-Dissolved | <0.00001 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Tin (Sn)-Dissolved | 0.000075 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Titanium (Ti)-Dissolved | <0.00002 | <W | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Uranium (U)-Dissolved | 0.0000010 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Vanadium (V)-Dissolved | 0.00014 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Zinc (Zn)-Dissolved | 0.0004 | <DL | 0.0030 | mg/L | | 16-DEC-22 | R5908479 |
| Zirconium (Zr)-Dissolved | 0.000002 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-DEC-22 | R5908599 |
| Chemical Oxygen Demand | 14 | | 10 | mg/L | 14-DEC-22 | 17-DEC-22 | R5908136 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 20-DEC-22 | 20-DEC-22 | R5911738 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2743056-3 SW06_SW_20221210 Sampled By: Client on 10-DEC-22 @ 12:00 Matrix: SW | | | | | | | |
| Physical Tests | | | | | | | |
| Color, True | 150 | | 2.0 | CU | | 14-DEC-22 | R5906761 |
| Conductivity (EC) | 267 | | 1.0 | uS/cm | | 14-DEC-22 | R5907083 |
| Hardness (as CaCO3) | 142 | | 0.51 | mg/L | | 19-DEC-22 | |
| pH | 7.26 | | 0.10 | pH | | 14-DEC-22 | R5907083 |
| Total Suspended Solids | 4.5 | | 3.0 | mg/L | | 15-DEC-22 | R5907877 |
| Total Dissolved Solids | 216 | | 20 | mg/L | | 15-DEC-22 | R5907878 |
| Turbidity | 11.8 | | 0.10 | NTU | | 14-DEC-22 | R5906797 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.0 | | 2.0 | mg/L | | 17-DEC-22 | R5908837 |
| Alkalinity, Total (as CaCO3) | 129 | | 2.0 | mg/L | | 14-DEC-22 | R5907083 |
| Ammonia, Total (as N) | 0.030 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908216 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-3 SW06_SW_20221210 | | | | | | | |
| Sampled By: Client on 10-DEC-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Chloride (Cl) | 5.66 | | 0.10 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Fluoride (F) | 0.044 | | 0.020 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Nitrate (as N) | 0.070 | <T | 0.020 | mg/L | | 14-DEC-22 | R5907116 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-DEC-22 | R5907116 |
| Total Kjeldahl Nitrogen | 1.10 | | 0.050 | mg/L | 14-DEC-22 | 15-DEC-22 | R5907876 |
| Orthophosphate-Dissolved (as P) | 0.0062 | | 0.0010 | mg/L | 14-DEC-22 | 16-DEC-22 | R5907716 |
| Sulfate (SO4) | 8.45 | | 0.30 | mg/L | | 14-DEC-22 | R5907116 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0001 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Free | 0.0002 | <DL | 0.0020 | mg/L | | 20-DEC-22 | R5908856 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 34.4 | | 0.50 | mg/L | 15-DEC-22 | 23-DEC-22 | R5911499 |
| Total Organic Carbon | 35.1 | | 0.50 | mg/L | | 21-DEC-22 | R5910216 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.411 | | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Antimony (Sb)-Total | 0.000190 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908436 |
| Arsenic (As)-Total | 0.00110 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Barium (Ba)-Total | 0.0194 | | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Beryllium (Be)-Total | 0.0000299 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Bismuth (Bi)-Total | 0.00001 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Boron (B)-Total | 0.0105 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Cadmium (Cd)-Total | 0.000035 | <T | 0.000017 | mg/L | | 16-DEC-22 | R5908436 |
| Calcium (Ca)-Total | 34.5 | | 0.20 | mg/L | | 16-DEC-22 | R5908436 |
| Cesium (Cs)-Total | 0.0000605 | | 0.000010 | mg/L | | 16-DEC-22 | R5908436 |
| Chromium (Cr)-Total | 0.00096 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Cobalt (Co)-Total | 0.000340 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908436 |
| Copper (Cu)-Total | 0.00174 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Iron (Fe)-Total | 0.920 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Lead (Pb)-Total | 0.00063 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Lithium (Li)-Total | 0.0060 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Magnesium (Mg)-Total | 15.2 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Manganese (Mn)-Total | 0.0480 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 20-DEC-22 | R5908978 |
| Molybdenum (Mo)-Total | 0.000380 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Nickel (Ni)-Total | 0.00188 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Phosphorus (P)-Total | 0.025 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Potassium (K)-Total | 2.00 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Rubidium (Rb)-Total | 0.00230 | | 0.00020 | mg/L | | 16-DEC-22 | R5908436 |
| Selenium (Se)-Total | 0.000140 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Silicon (Si)-Total | 7.27 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-3 SW06_SW_20221210 | | | | | | | |
| Sampled By: Client on 10-DEC-22 @ 12:00 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Sodium (Na)-Total | 5.48 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Strontium (Sr)-Total | 0.0898 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Sulfur (S)-Total | 2.8 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Thallium (Tl)-Total | 0.000010 | <DL | 0.00030 | mg/L | | 16-DEC-22 | R5908436 |
| Thorium (Th)-Total | 0.00010 | | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Tin (Sn)-Total | 0.00012 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Titanium (Ti)-Total | 0.0135 | | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Uranium (U)-Total | 0.000508 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Vanadium (V)-Total | 0.00140 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Zinc (Zn)-Total | 0.0105 | | 0.0030 | mg/L | | 16-DEC-22 | R5908436 |
| Zirconium (Zr)-Total | 0.000616 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-DEC-22 | R5908318 |
| Aluminum (Al)-Dissolved | 0.0540 | | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Antimony (Sb)-Dissolved | 0.000180 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908479 |
| Arsenic (As)-Dissolved | 0.000966 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Barium (Ba)-Dissolved | 0.0162 | | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Beryllium (Be)-Dissolved | 0.000014 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Boron (B)-Dissolved | 0.0100 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Cadmium (Cd)-Dissolved | 0.0000170 | <T | 0.000017 | mg/L | | 16-DEC-22 | R5908479 |
| Calcium (Ca)-Dissolved | 32.4 | | 0.20 | mg/L | | 16-DEC-22 | R5908479 |
| Cesium (Cs)-Dissolved | 0.0000040 | <DL | 0.000010 | mg/L | | 16-DEC-22 | R5908479 |
| Chromium (Cr)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Cobalt (Co)-Dissolved | 0.000158 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908479 |
| Copper (Cu)-Dissolved | 0.00130 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Iron (Fe)-Dissolved | 0.406 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Lead (Pb)-Dissolved | 0.00011 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Lithium (Li)-Dissolved | 0.0060 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Magnesium (Mg)-Dissolved | 15.0 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Manganese (Mn)-Dissolved | 0.0390 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908980 |
| Molybdenum (Mo)-Dissolved | 0.000366 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Nickel (Ni)-Dissolved | 0.00128 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Phosphorus (P)-Dissolved | 0.015 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Potassium (K)-Dissolved | 1.90 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Rubidium (Rb)-Dissolved | 0.00147 | | 0.00020 | mg/L | | 16-DEC-22 | R5908479 |
| Selenium (Se)-Dissolved | 0.000180 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Silicon (Si)-Dissolved | 6.68 | | 0.050 | mg/L | | 16-DEC-22 | R5908479 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|---------|----------|-----------|-----------|----------|
| L2743056-3 SW06_SW_20221210 Sampled By: Client on 10-DEC-22 @ 12:00 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Sodium (Na)-Dissolved | 5.29 | | 0.10 | mg/L | | 16-DEC-22 | R5908479 |
| Strontium (Sr)-Dissolved | 0.0843 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Sulfur (S)-Dissolved | 3.0 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908479 |
| Thorium (Th)-Dissolved | 0.00007 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Tin (Sn)-Dissolved | 0.000030 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Titanium (Ti)-Dissolved | 0.00312 | | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Uranium (U)-Dissolved | 0.000460 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Vanadium (V)-Dissolved | 0.00060 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Zinc (Zn)-Dissolved | 0.0046 | <T | 0.0030 | mg/L | | 16-DEC-22 | R5908479 |
| Zirconium (Zr)-Dissolved | 0.000390 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-DEC-22 | R5908599 |
| Chemical Oxygen Demand | 110 | | 10 | mg/L | 14-DEC-22 | 17-DEC-22 | R5908136 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 20-DEC-22 | 20-DEC-22 | R5911738 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2743056-4 SW17_SW_20221210 Sampled By: Client on 10-DEC-22 @ 12:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.76 | | 0 | mg/L | | 16-DEC-22 | R5907998 |
| pH, Client Supplied | 7.08 | | 0.10 | pH | | 16-DEC-22 | R5907998 |
| Temperature, Client Supplied | .19 | | 0 | Degree C | | 16-DEC-22 | R5907998 |
| Physical Tests | | | | | | | |
| Color, True | 50.1 | | 2.0 | CU | | 14-DEC-22 | R5906761 |
| Conductivity (EC) | 90.4 | | 1.0 | uS/cm | | 14-DEC-22 | R5907083 |
| Hardness (as CaCO3) | 38.4 | | 0.51 | mg/L | | 19-DEC-22 | |
| pH | 7.32 | | 0.10 | pH | | 14-DEC-22 | R5907083 |
| Total Suspended Solids | 1.0 | <DL | 3.0 | mg/L | | 15-DEC-22 | R5907877 |
| Total Dissolved Solids | 72 | | 13 | mg/L | | 15-DEC-22 | R5907878 |
| Turbidity | 2.24 | | 0.10 | NTU | | 14-DEC-22 | R5906797 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.2 | <DL | 2.0 | mg/L | | 17-DEC-22 | R5908837 |
| Alkalinity, Total (as CaCO3) | 36.6 | | 2.0 | mg/L | | 14-DEC-22 | R5907083 |
| Ammonia, Total (as N) | 0.008 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908216 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 19-DEC-22 | |
| Chloride (Cl) | 2.75 | | 0.10 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Fluoride (F) | 0.035 | | 0.020 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Nitrate (as N) | 0.058 | <T | 0.020 | mg/L | | 14-DEC-22 | R5907116 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-4 SW17_SW_20221210 | | | | | | | |
| Sampled By: Client on 10-DEC-22 @ 12:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-DEC-22 | R5907116 |
| Total Kjeldahl Nitrogen | 0.554 | | 0.050 | mg/L | 14-DEC-22 | 15-DEC-22 | R5907876 |
| Orthophosphate-Dissolved (as P) | 0.0019 | | 0.0010 | mg/L | 14-DEC-22 | 16-DEC-22 | R5907716 |
| Sulfate (SO4) | 4.70 | <T | 0.30 | mg/L | | 14-DEC-22 | R5907116 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Total | <0.0002 | <W | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 20-DEC-22 | R5908856 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 13.2 | | 0.50 | mg/L | 15-DEC-22 | 23-DEC-22 | R5911499 |
| Total Organic Carbon | 14.4 | | 0.50 | mg/L | | 21-DEC-22 | R5910216 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0972 | | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908436 |
| Arsenic (As)-Total | 0.00049 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Barium (Ba)-Total | 0.0118 | | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Beryllium (Be)-Total | 0.0000033 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Boron (B)-Total | 0.0040 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Cadmium (Cd)-Total | 0.000008 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908436 |
| Calcium (Ca)-Total | 10.3 | | 0.20 | mg/L | | 16-DEC-22 | R5908436 |
| Cesium (Cs)-Total | 0.0000130 | | 0.000010 | mg/L | | 16-DEC-22 | R5908436 |
| Chromium (Cr)-Total | 0.00046 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Cobalt (Co)-Total | 0.000070 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908436 |
| Copper (Cu)-Total | 0.00102 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Iron (Fe)-Total | 0.204 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Lead (Pb)-Total | 0.00011 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Lithium (Li)-Total | 0.0012 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Magnesium (Mg)-Total | 3.43 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Manganese (Mn)-Total | 0.0114 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908978 |
| Molybdenum (Mo)-Total | 0.000205 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Nickel (Ni)-Total | 0.00068 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Phosphorus (P)-Total | <0.005 | <W | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Potassium (K)-Total | 0.97 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Rubidium (Rb)-Total | 0.00204 | | 0.00020 | mg/L | | 16-DEC-22 | R5908436 |
| Selenium (Se)-Total | 0.000105 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Silicon (Si)-Total | 2.47 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Sodium (Na)-Total | 4.10 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Strontium (Sr)-Total | 0.0289 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Sulfur (S)-Total | 1.4 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-4 SW17_SW_20221210 | | | | | | | |
| Sampled By: Client on 10-DEC-22 @ 12:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908436 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Tin (Sn)-Total | 0.00005 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Titanium (Ti)-Total | 0.00256 | | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Uranium (U)-Total | 0.0000965 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Vanadium (V)-Total | 0.00050 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Zinc (Zn)-Total | 0.0010 | <DL | 0.0030 | mg/L | | 16-DEC-22 | R5908436 |
| Zirconium (Zr)-Total | 0.000178 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-DEC-22 | R5908318 |
| Aluminum (Al)-Dissolved | 0.0252 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908479 |
| Arsenic (As)-Dissolved | 0.000493 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Barium (Ba)-Dissolved | 0.0109 | | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Boron (B)-Dissolved | 0.0035 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Cadmium (Cd)-Dissolved | 0.0000040 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908479 |
| Calcium (Ca)-Dissolved | 9.81 | | 0.20 | mg/L | | 16-DEC-22 | R5908479 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 16-DEC-22 | R5908479 |
| Chromium (Cr)-Dissolved | 0.00022 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Cobalt (Co)-Dissolved | 0.000022 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908479 |
| Copper (Cu)-Dissolved | 0.00088 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Iron (Fe)-Dissolved | 0.0915 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Lithium (Li)-Dissolved | 0.0014 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Magnesium (Mg)-Dissolved | 3.37 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Manganese (Mn)-Dissolved | 0.00156 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908980 |
| Molybdenum (Mo)-Dissolved | 0.000188 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Nickel (Ni)-Dissolved | 0.00054 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Potassium (K)-Dissolved | 0.93 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Rubidium (Rb)-Dissolved | 0.00188 | | 0.00020 | mg/L | | 16-DEC-22 | R5908479 |
| Selenium (Se)-Dissolved | 0.000120 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Silicon (Si)-Dissolved | 2.33 | | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Sodium (Na)-Dissolved | 4.05 | | 0.10 | mg/L | | 16-DEC-22 | R5908479 |
| Strontium (Sr)-Dissolved | 0.0280 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|---------|----------|-----------|-----------|----------|
| L2743056-4 SW17_SW_20221210 Sampled By: Client on 10-DEC-22 @ 12:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Sulfur (S)-Dissolved | 1.6 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908479 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Titanium (Ti)-Dissolved | 0.00052 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Uranium (U)-Dissolved | 0.0000825 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Vanadium (V)-Dissolved | 0.00034 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Zinc (Zn)-Dissolved | 0.0004 | <DL | 0.0030 | mg/L | | 16-DEC-22 | R5908479 |
| Zirconium (Zr)-Dissolved | 0.000160 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-DEC-22 | R5908599 |
| Chemical Oxygen Demand | 50 | | 10 | mg/L | 14-DEC-22 | 17-DEC-22 | R5908136 |
| Oil and Grease, Total | 0.4 | <DL | 1.0 | mg/L | 20-DEC-22 | 20-DEC-22 | R5911738 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2743056-5 SW20-SW_20221210 Sampled By: Client on 10-DEC-22 @ 15:30 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 2.93 | | 0 | mg/L | | 16-DEC-22 | R5907998 |
| pH, Client Supplied | 6.58 | | 0.10 | pH | | 16-DEC-22 | R5907998 |
| Temperature, Client Supplied | 2.61 | | 0 | Degree C | | 16-DEC-22 | R5907998 |
| Physical Tests | | | | | | | |
| Color, True | 101 | | 2.0 | CU | | 14-DEC-22 | R5906761 |
| Conductivity (EC) | 361 | | 1.0 | uS/cm | | 14-DEC-22 | R5907083 |
| Hardness (as CaCO3) | 164 | | 0.51 | mg/L | | 19-DEC-22 | |
| pH | 7.20 | | 0.10 | pH | | 14-DEC-22 | R5907083 |
| Total Suspended Solids | 3.0 | | 3.0 | mg/L | | 15-DEC-22 | R5907877 |
| Total Dissolved Solids | 242 | | 20 | mg/L | | 15-DEC-22 | R5907878 |
| Turbidity | 4.32 | | 0.10 | NTU | | 14-DEC-22 | R5906797 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.4 | | 2.0 | mg/L | | 17-DEC-22 | R5908837 |
| Alkalinity, Total (as CaCO3) | 153 | | 2.0 | mg/L | | 14-DEC-22 | R5907083 |
| Ammonia, Total (as N) | 0.022 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908216 |
| Ammonia, Un-ionized (as N) | <0.001 | <W | 0.010 | mg/L | | 19-DEC-22 | |
| Chloride (Cl) | 26.6 | | 0.10 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Fluoride (F) | 0.040 | | 0.020 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Nitrate (as N) | 0.010 | <DL | 0.020 | mg/L | | 14-DEC-22 | R5907116 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-DEC-22 | R5907116 |
| Total Kjeldahl Nitrogen | 0.930 | | 0.050 | mg/L | 14-DEC-22 | 15-DEC-22 | R5907876 |
| Orthophosphate-Dissolved (as P) | 0.0126 | | 0.0010 | mg/L | 14-DEC-22 | 16-DEC-22 | R5907716 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-5 SW20-SW_20221210 Sampled By: Client on 10-DEC-22 @ 15:30 Matrix: SW | | | | | | | |
| Anions and Nutrients | | | | | | | |
| Sulfate (SO4) | 4.55 | <T | 0.30 | mg/L | | 14-DEC-22 | R5907116 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Total | 0.0002 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 20-DEC-22 | R5908856 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 24.7 | | 0.50 | mg/L | 15-DEC-22 | 23-DEC-22 | R5911499 |
| Total Organic Carbon | 25.3 | | 0.50 | mg/L | | 21-DEC-22 | R5910216 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.169 | | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908436 |
| Arsenic (As)-Total | 0.00081 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Barium (Ba)-Total | 0.0176 | | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Beryllium (Be)-Total | 0.0000176 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Boron (B)-Total | 0.0100 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Cadmium (Cd)-Total | 0.000010 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908436 |
| Calcium (Ca)-Total | 40.3 | | 0.20 | mg/L | | 16-DEC-22 | R5908436 |
| Cesium (Cs)-Total | 0.0000195 | | 0.000010 | mg/L | | 16-DEC-22 | R5908436 |
| Chromium (Cr)-Total | 0.00054 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Cobalt (Co)-Total | 0.000425 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908436 |
| Copper (Cu)-Total | 0.00066 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Iron (Fe)-Total | 0.902 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Lead (Pb)-Total | 0.00022 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Lithium (Li)-Total | 0.0062 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Magnesium (Mg)-Total | 16.9 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Manganese (Mn)-Total | 0.148 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908978 |
| Molybdenum (Mo)-Total | 0.000220 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Nickel (Ni)-Total | 0.00146 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Phosphorus (P)-Total | 0.030 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Potassium (K)-Total | 1.55 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Rubidium (Rb)-Total | 0.00166 | | 0.00020 | mg/L | | 16-DEC-22 | R5908436 |
| Selenium (Se)-Total | 0.000150 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Silicon (Si)-Total | 7.62 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Sodium (Na)-Total | 12.8 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Strontium (Sr)-Total | 0.101 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Sulfur (S)-Total | 1.6 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908436 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-5 SW20-SW_20221210 | | | | | | | |
| Sampled By: Client on 10-DEC-22 @ 15:30 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Tin (Sn)-Total | 0.00005 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Titanium (Ti)-Total | 0.00537 | | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Uranium (U)-Total | 0.000487 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Vanadium (V)-Total | 0.00070 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Zinc (Zn)-Total | 0.0040 | <T | 0.0030 | mg/L | | 16-DEC-22 | R5908436 |
| Zirconium (Zr)-Total | 0.000386 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-DEC-22 | R5908318 |
| Aluminum (Al)-Dissolved | 0.0176 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908479 |
| Arsenic (As)-Dissolved | 0.000739 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Barium (Ba)-Dissolved | 0.0167 | | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Beryllium (Be)-Dissolved | 0.000012 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Boron (B)-Dissolved | 0.0080 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Cadmium (Cd)-Dissolved | 0.0000080 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908479 |
| Calcium (Ca)-Dissolved | 38.2 | | 0.20 | mg/L | | 16-DEC-22 | R5908479 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 16-DEC-22 | R5908479 |
| Chromium (Cr)-Dissolved | 0.00017 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Cobalt (Co)-Dissolved | 0.000258 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908479 |
| Copper (Cu)-Dissolved | 0.00048 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Iron (Fe)-Dissolved | 0.542 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Lithium (Li)-Dissolved | 0.0062 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Magnesium (Mg)-Dissolved | 16.5 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Manganese (Mn)-Dissolved | 0.105 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908980 |
| Molybdenum (Mo)-Dissolved | 0.000210 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Nickel (Ni)-Dissolved | 0.00122 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Phosphorus (P)-Dissolved | 0.020 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Potassium (K)-Dissolved | 1.52 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Rubidium (Rb)-Dissolved | 0.00131 | | 0.00020 | mg/L | | 16-DEC-22 | R5908479 |
| Selenium (Se)-Dissolved | 0.000125 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Silicon (Si)-Dissolved | 7.22 | | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Sodium (Na)-Dissolved | 12.5 | | 0.10 | mg/L | | 16-DEC-22 | R5908479 |
| Strontium (Sr)-Dissolved | 0.0950 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Sulfur (S)-Dissolved | 1.6 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908479 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|---------|----------|-----------|-----------|----------|
| L2743056-5 SW20-SW_20221210 Sampled By: Client on 10-DEC-22 @ 15:30 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Titanium (Ti)-Dissolved | 0.00120 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Uranium (U)-Dissolved | 0.000468 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Vanadium (V)-Dissolved | 0.00034 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Zinc (Zn)-Dissolved | 0.0018 | <DL | 0.0030 | mg/L | | 16-DEC-22 | R5908479 |
| Zirconium (Zr)-Dissolved | 0.000360 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-DEC-22 | R5908599 |
| Chemical Oxygen Demand | 82 | | 10 | mg/L | 14-DEC-22 | 17-DEC-22 | R5908136 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 20-DEC-22 | 20-DEC-22 | R5911738 |
| Radiological Parameters | | | | | | | |
| Radium-226 | <0.005 | | 0.005 | Bq/L | | 05-JAN-23 | R5914558 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2743056-6 SW28A_SW_20221210 Sampled By: Client on 11-DEC-22 @ 11:10 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 12.17 | | 0 | mg/L | | 16-DEC-22 | R5907998 |
| pH, Client Supplied | 9.73 | | 0.10 | pH | | 16-DEC-22 | R5907998 |
| Temperature, Client Supplied | .82 | | 0 | Degree C | | 16-DEC-22 | R5907998 |
| Physical Tests | | | | | | | |
| Color, True | 130 | | 2.0 | CU | | 14-DEC-22 | R5906761 |
| Conductivity (EC) | 259 | | 1.0 | uS/cm | | 14-DEC-22 | R5907083 |
| Hardness (as CaCO3) | 145 | | 0.51 | mg/L | | 19-DEC-22 | |
| pH | 7.69 | | 0.10 | pH | | 14-DEC-22 | R5907083 |
| Total Suspended Solids | 4.5 | | 3.0 | mg/L | | 15-DEC-22 | R5907877 |
| Total Dissolved Solids | 204 | | 20 | mg/L | | 15-DEC-22 | R5907878 |
| Turbidity | 2.75 | | 0.10 | NTU | | 14-DEC-22 | R5906797 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 17-DEC-22 | R5908837 |
| Alkalinity, Total (as CaCO3) | 141 | | 2.0 | mg/L | | 14-DEC-22 | R5907083 |
| Ammonia, Total (as N) | 0.122 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908216 |
| Ammonia, Un-ionized (as N) | 0.039 | <T | 0.010 | mg/L | | 19-DEC-22 | |
| Chloride (Cl) | 2.80 | | 0.10 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Fluoride (F) | 0.054 | | 0.020 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Nitrate (as N) | 0.080 | <T | 0.020 | mg/L | | 14-DEC-22 | R5907116 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-DEC-22 | R5907116 |
| Total Kjeldahl Nitrogen | 1.42 | | 0.050 | mg/L | 14-DEC-22 | 15-DEC-22 | R5907876 |
| Orthophosphate-Dissolved (as P) | 0.0025 | | 0.0010 | mg/L | 14-DEC-22 | 16-DEC-22 | R5907716 |
| Sulfate (SO4) | 0.85 | <T | 0.30 | mg/L | | 14-DEC-22 | R5907116 |
| Cyanides | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-6 SW28A_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 11:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0001 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Free | 0.0002 | <DL | 0.0020 | mg/L | | 20-DEC-22 | R5908856 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 32.6 | | 0.50 | mg/L | 15-DEC-22 | 23-DEC-22 | R5911499 |
| Total Organic Carbon | 33.5 | | 0.50 | mg/L | | 21-DEC-22 | R5910216 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0994 | | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Antimony (Sb)-Total | 0.000045 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908436 |
| Arsenic (As)-Total | 0.00104 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Barium (Ba)-Total | 0.0200 | | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Beryllium (Be)-Total | 0.0000188 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Boron (B)-Total | 0.0085 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Cadmium (Cd)-Total | 0.000008 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908436 |
| Calcium (Ca)-Total | 35.9 | | 0.20 | mg/L | | 16-DEC-22 | R5908436 |
| Cesium (Cs)-Total | 0.0000140 | | 0.000010 | mg/L | | 16-DEC-22 | R5908436 |
| Chromium (Cr)-Total | 0.00046 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Cobalt (Co)-Total | 0.000230 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908436 |
| Copper (Cu)-Total | 0.00086 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Iron (Fe)-Total | 0.457 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Lead (Pb)-Total | 0.00011 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Lithium (Li)-Total | 0.0044 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Magnesium (Mg)-Total | 15.1 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Manganese (Mn)-Total | 0.0322 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908978 |
| Molybdenum (Mo)-Total | 0.000470 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Nickel (Ni)-Total | 0.00122 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Potassium (K)-Total | 1.12 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Rubidium (Rb)-Total | 0.00231 | | 0.00020 | mg/L | | 16-DEC-22 | R5908436 |
| Selenium (Se)-Total | 0.000130 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Silicon (Si)-Total | 4.53 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Sodium (Na)-Total | 1.88 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Strontium (Sr)-Total | 0.0804 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Sulfur (S)-Total | 0.4 | <DL | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908436 |
| Thorium (Th)-Total | 0.00003 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Tin (Sn)-Total | 0.00005 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-6 SW28A_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 11:10 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Titanium (Ti)-Total | 0.00284 | <DL | 0.0036 | mg/L | | 16-DEC-22 | R5908436 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Uranium (U)-Total | 0.000567 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Vanadium (V)-Total | 0.00065 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Zinc (Zn)-Total | 0.0015 | <DL | 0.0030 | mg/L | | 16-DEC-22 | R5908436 |
| Zirconium (Zr)-Total | 0.000252 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-DEC-22 | R5908318 |
| Aluminum (Al)-Dissolved | 0.0122 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Antimony (Sb)-Dissolved | 0.000040 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908479 |
| Arsenic (As)-Dissolved | 0.000999 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Barium (Ba)-Dissolved | 0.0180 | | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Beryllium (Be)-Dissolved | 0.000010 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Boron (B)-Dissolved | 0.0075 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908479 |
| Calcium (Ca)-Dissolved | 33.0 | | 0.20 | mg/L | | 16-DEC-22 | R5908479 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 16-DEC-22 | R5908479 |
| Chromium (Cr)-Dissolved | 0.00018 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Cobalt (Co)-Dissolved | 0.000174 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908479 |
| Copper (Cu)-Dissolved | 0.00072 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Iron (Fe)-Dissolved | 0.285 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Lithium (Li)-Dissolved | 0.0044 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Magnesium (Mg)-Dissolved | 15.2 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Manganese (Mn)-Dissolved | 0.0211 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908980 |
| Molybdenum (Mo)-Dissolved | 0.000454 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Nickel (Ni)-Dissolved | 0.00104 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Potassium (K)-Dissolved | 1.09 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Rubidium (Rb)-Dissolved | 0.00194 | | 0.00020 | mg/L | | 16-DEC-22 | R5908479 |
| Selenium (Se)-Dissolved | 0.000165 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Silicon (Si)-Dissolved | 4.23 | | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Sodium (Na)-Dissolved | 1.80 | | 0.10 | mg/L | | 16-DEC-22 | R5908479 |
| Strontium (Sr)-Dissolved | 0.0768 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Sulfur (S)-Dissolved | 0.6 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908479 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|--------|----------|-----------|-----------|----------|
| L2743056-6 SW28A_SW_20221210 Sampled By: Client on 11-DEC-22 @ 11:10 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Titanium (Ti)-Dissolved | 0.00060 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Uranium (U)-Dissolved | 0.000549 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Vanadium (V)-Dissolved | 0.00040 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Zinc (Zn)-Dissolved | 0.0006 | <DL | 0.0030 | mg/L | | 16-DEC-22 | R5908479 |
| Zirconium (Zr)-Dissolved | 0.000210 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-DEC-22 | R5908599 |
| Chemical Oxygen Demand | 106 | | 10 | mg/L | 14-DEC-22 | 17-DEC-22 | R5908136 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 20-DEC-22 | 20-DEC-22 | R5911738 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2743056-7 SW22A_SW_20221210 Sampled By: Client on 11-DEC-22 @ 12:05 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 3.81 | | 0 | mg/L | | 16-DEC-22 | R5907998 |
| pH, Client Supplied | 9.31 | | 0.10 | pH | | 16-DEC-22 | R5907998 |
| Temperature, Client Supplied | .81 | | 0 | Degree C | | 16-DEC-22 | R5907998 |
| Physical Tests | | | | | | | |
| Color, True | 72.7 | | 2.0 | CU | | 14-DEC-22 | R5906761 |
| Conductivity (EC) | 410 | | 1.0 | uS/cm | | 14-DEC-22 | R5907083 |
| Hardness (as CaCO3) | 201 | | 0.51 | mg/L | | 19-DEC-22 | |
| pH | 7.31 | | 0.10 | pH | | 14-DEC-22 | R5907083 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 15-DEC-22 | R5907877 |
| Total Dissolved Solids | 262 | | 20 | mg/L | | 15-DEC-22 | R5907878 |
| Turbidity | 4.52 | | 0.10 | NTU | | 14-DEC-22 | R5906797 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.6 | | 2.0 | mg/L | | 17-DEC-22 | R5908837 |
| Alkalinity, Total (as CaCO3) | 207 | | 2.0 | mg/L | | 14-DEC-22 | R5907083 |
| Ammonia, Total (as N) | 0.030 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908216 |
| Ammonia, Un-ionized (as N) | 0.004 | <DL | 0.010 | mg/L | | 19-DEC-22 | |
| Chloride (Cl) | 19.8 | | 0.10 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Fluoride (F) | 0.052 | | 0.020 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Nitrate (as N) | 0.034 | <T | 0.020 | mg/L | | 14-DEC-22 | R5907116 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-DEC-22 | R5907116 |
| Total Kjeldahl Nitrogen | 0.916 | | 0.050 | mg/L | 14-DEC-22 | 15-DEC-22 | R5907876 |
| Orthophosphate-Dissolved (as P) | 0.0357 | | 0.0010 | mg/L | 14-DEC-22 | 16-DEC-22 | R5907716 |
| Sulfate (SO4) | 5.45 | | 0.30 | mg/L | | 14-DEC-22 | R5907116 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0001 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-7 SW22A_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 12:05 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Cyanide, Free | 0.0003 | <DL | 0.0020 | mg/L | | 20-DEC-22 | R5908856 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 24.5 | | 0.50 | mg/L | 15-DEC-22 | 23-DEC-22 | R5911499 |
| Total Organic Carbon | 24.6 | | 0.50 | mg/L | | 21-DEC-22 | R5910216 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.141 | | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Antimony (Sb)-Total | 0.000065 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908436 |
| Arsenic (As)-Total | 0.00099 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Barium (Ba)-Total | 0.0232 | | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Beryllium (Be)-Total | 0.0000132 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Boron (B)-Total | 0.0105 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Cadmium (Cd)-Total | 0.000013 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908436 |
| Calcium (Ca)-Total | 49.5 | | 0.20 | mg/L | | 16-DEC-22 | R5908436 |
| Cesium (Cs)-Total | 0.0000130 | | 0.000010 | mg/L | | 16-DEC-22 | R5908436 |
| Chromium (Cr)-Total | 0.00052 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Cobalt (Co)-Total | 0.000735 | <T | 0.00050 | mg/L | | 16-DEC-22 | R5908436 |
| Copper (Cu)-Total | 0.00064 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Iron (Fe)-Total | 0.900 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Lead (Pb)-Total | 0.00015 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Lithium (Li)-Total | 0.0064 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Magnesium (Mg)-Total | 20.5 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Manganese (Mn)-Total | 0.882 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 20-DEC-22 | R5908978 |
| Molybdenum (Mo)-Total | 0.000300 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Nickel (Ni)-Total | 0.00164 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Phosphorus (P)-Total | 0.065 | | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Potassium (K)-Total | 2.51 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Rubidium (Rb)-Total | 0.00230 | | 0.00020 | mg/L | | 16-DEC-22 | R5908436 |
| Selenium (Se)-Total | 0.000140 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Silicon (Si)-Total | 6.50 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Sodium (Na)-Total | 9.36 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Strontium (Sr)-Total | 0.118 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Sulfur (S)-Total | 2.0 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908436 |
| Thorium (Th)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Tin (Sn)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Titanium (Ti)-Total | 0.00505 | | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908436 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-7 SW22A_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 12:05 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Uranium (U)-Total | 0.000727 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Vanadium (V)-Total | 0.00065 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Zinc (Zn)-Total | 0.0065 | <T | 0.0030 | mg/L | | 16-DEC-22 | R5908436 |
| Zirconium (Zr)-Total | 0.000322 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-DEC-22 | R5908318 |
| Aluminum (Al)-Dissolved | 0.0088 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Antimony (Sb)-Dissolved | 0.000055 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908479 |
| Arsenic (As)-Dissolved | 0.000936 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Barium (Ba)-Dissolved | 0.0208 | | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Boron (B)-Dissolved | 0.0090 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Cadmium (Cd)-Dissolved | 0.0000070 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908479 |
| Calcium (Ca)-Dissolved | 47.1 | | 0.20 | mg/L | | 16-DEC-22 | R5908479 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 16-DEC-22 | R5908479 |
| Chromium (Cr)-Dissolved | 0.00012 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Cobalt (Co)-Dissolved | 0.000538 | <T | 0.00050 | mg/L | | 16-DEC-22 | R5908479 |
| Copper (Cu)-Dissolved | 0.00048 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Iron (Fe)-Dissolved | 0.476 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Lead (Pb)-Dissolved | 0.00003 | <DL | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Lithium (Li)-Dissolved | 0.0068 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Magnesium (Mg)-Dissolved | 20.2 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Manganese (Mn)-Dissolved | 0.753 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908980 |
| Molybdenum (Mo)-Dissolved | 0.000300 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Nickel (Ni)-Dissolved | 0.00146 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Phosphorus (P)-Dissolved | 0.045 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Potassium (K)-Dissolved | 2.48 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Rubidium (Rb)-Dissolved | 0.00189 | | 0.00020 | mg/L | | 16-DEC-22 | R5908479 |
| Selenium (Se)-Dissolved | 0.000165 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Silicon (Si)-Dissolved | 6.63 | | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Sodium (Na)-Dissolved | 9.35 | | 0.10 | mg/L | | 16-DEC-22 | R5908479 |
| Strontium (Sr)-Dissolved | 0.112 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Sulfur (S)-Dissolved | 2.0 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908479 |
| Thorium (Th)-Dissolved | 0.00002 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Titanium (Ti)-Dissolved | 0.00070 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|--------|----------|-----------|-----------|----------|
| L2743056-7 SW22A_SW_20221210 Sampled By: Client on 11-DEC-22 @ 12:05 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Uranium (U)-Dissolved | 0.000743 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Vanadium (V)-Dissolved | 0.00034 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Zinc (Zn)-Dissolved | 0.0020 | <DL | 0.0030 | mg/L | | 16-DEC-22 | R5908479 |
| Zirconium (Zr)-Dissolved | 0.000244 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-DEC-22 | R5908599 |
| Chemical Oxygen Demand | 76 | | 10 | mg/L | 14-DEC-22 | 17-DEC-22 | R5908136 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 20-DEC-22 | 20-DEC-22 | R5911738 |
| Radiological Parameters | | | | | | | |
| Radium-226 | <0.005 | | 0.005 | Bq/L | | 05-JAN-23 | R5914558 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2743056-8 SW25_SW_20221210 Sampled By: Client on 11-DEC-22 @ 12:35 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.38 | | 0 | mg/L | | 16-DEC-22 | R5907998 |
| pH, Client Supplied | 9.21 | | 0.10 | pH | | 16-DEC-22 | R5907998 |
| Temperature, Client Supplied | .06 | | 0 | Degree C | | 16-DEC-22 | R5907998 |
| Physical Tests | | | | | | | |
| Color, True | 106 | | 2.0 | CU | | 14-DEC-22 | R5906761 |
| Conductivity (EC) | 275 | | 1.0 | uS/cm | | 14-DEC-22 | R5907083 |
| Hardness (as CaCO3) | 141 | | 0.51 | mg/L | | 19-DEC-22 | |
| pH | 7.64 | | 0.10 | pH | | 14-DEC-22 | R5907083 |
| Total Suspended Solids | 2.5 | <DL | 3.0 | mg/L | | 15-DEC-22 | R5907877 |
| Total Dissolved Solids | 202 | | 20 | mg/L | | 15-DEC-22 | R5907878 |
| Turbidity | 3.79 | | 0.10 | NTU | | 14-DEC-22 | R5906797 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.6 | <DL | 2.0 | mg/L | | 17-DEC-22 | R5908837 |
| Alkalinity, Total (as CaCO3) | 127 | | 2.0 | mg/L | | 14-DEC-22 | R5907083 |
| Ammonia, Total (as N) | 0.052 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908216 |
| Ammonia, Un-ionized (as N) | 0.006 | <DL | 0.010 | mg/L | | 19-DEC-22 | |
| Chloride (Cl) | 8.34 | | 0.10 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Fluoride (F) | 0.045 | | 0.020 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Nitrate (as N) | 0.096 | <T | 0.020 | mg/L | | 14-DEC-22 | R5907116 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-DEC-22 | R5907116 |
| Total Kjeldahl Nitrogen | 1.07 | | 0.050 | mg/L | 14-DEC-22 | 15-DEC-22 | R5907876 |
| Orthophosphate-Dissolved (as P) | 0.0030 | | 0.0010 | mg/L | 14-DEC-22 | 16-DEC-22 | R5907716 |
| Sulfate (SO4) | 8.70 | | 0.30 | mg/L | | 14-DEC-22 | R5907116 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <0.0001 | <W | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Total | 0.0004 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 20-DEC-22 | R5908856 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-8 SW25_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 12:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Cyanides | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 24.4 | | 0.50 | mg/L | 15-DEC-22 | 23-DEC-22 | R5911499 |
| Total Organic Carbon | 24.7 | | 0.50 | mg/L | | 21-DEC-22 | R5910216 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.149 | | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Antimony (Sb)-Total | 0.000070 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908436 |
| Arsenic (As)-Total | 0.00085 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Barium (Ba)-Total | 0.0179 | | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Beryllium (Be)-Total | 0.0000067 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Boron (B)-Total | 0.0090 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Cadmium (Cd)-Total | 0.000005 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908436 |
| Calcium (Ca)-Total | 38.3 | | 0.20 | mg/L | | 16-DEC-22 | R5908436 |
| Cesium (Cs)-Total | 0.0000170 | | 0.000010 | mg/L | | 16-DEC-22 | R5908436 |
| Chromium (Cr)-Total | 0.00048 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Cobalt (Co)-Total | 0.000185 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908436 |
| Copper (Cu)-Total | 0.00120 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Iron (Fe)-Total | 0.392 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Lead (Pb)-Total | 0.00013 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Lithium (Li)-Total | 0.0034 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Magnesium (Mg)-Total | 13.2 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Manganese (Mn)-Total | 0.0230 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908978 |
| Molybdenum (Mo)-Total | 0.000505 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Nickel (Ni)-Total | 0.00122 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Potassium (K)-Total | 1.66 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Rubidium (Rb)-Total | 0.00194 | | 0.00020 | mg/L | | 16-DEC-22 | R5908436 |
| Selenium (Se)-Total | 0.000125 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Silicon (Si)-Total | 4.59 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Silver (Ag)-Total | 0.000001 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Sodium (Na)-Total | 3.70 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Strontium (Sr)-Total | 0.0765 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Sulfur (S)-Total | 3.0 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908436 |
| Thorium (Th)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Tin (Sn)-Total | 0.00008 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Titanium (Ti)-Total | 0.00721 | | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Uranium (U)-Total | 0.000813 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-8 SW25_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 12:35 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Vanadium (V)-Total | 0.00075 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Zinc (Zn)-Total | 0.0085 | <T | 0.0030 | mg/L | | 16-DEC-22 | R5908436 |
| Zirconium (Zr)-Total | 0.000258 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-DEC-22 | R5908318 |
| Aluminum (Al)-Dissolved | 0.0104 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Antimony (Sb)-Dissolved | 0.000060 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908479 |
| Arsenic (As)-Dissolved | 0.000793 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Barium (Ba)-Dissolved | 0.0163 | | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Beryllium (Be)-Dissolved | 0.000004 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Boron (B)-Dissolved | 0.0080 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908479 |
| Calcium (Ca)-Dissolved | 35.1 | | 0.20 | mg/L | | 16-DEC-22 | R5908479 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 16-DEC-22 | R5908479 |
| Chromium (Cr)-Dissolved | 0.00016 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Cobalt (Co)-Dissolved | 0.000114 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908479 |
| Copper (Cu)-Dissolved | 0.00098 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Iron (Fe)-Dissolved | 0.210 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Lithium (Li)-Dissolved | 0.0034 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Magnesium (Mg)-Dissolved | 13.1 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Manganese (Mn)-Dissolved | 0.0154 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Mercury (Hg)-Dissolved | 0.000005 | <T | 0.0000050 | mg/L | | 20-DEC-22 | R5908980 |
| Molybdenum (Mo)-Dissolved | 0.000454 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Nickel (Ni)-Dissolved | 0.00100 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Potassium (K)-Dissolved | 1.63 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Rubidium (Rb)-Dissolved | 0.00161 | | 0.00020 | mg/L | | 16-DEC-22 | R5908479 |
| Selenium (Se)-Dissolved | 0.000135 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Silicon (Si)-Dissolved | 4.26 | | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Sodium (Na)-Dissolved | 3.52 | | 0.10 | mg/L | | 16-DEC-22 | R5908479 |
| Strontium (Sr)-Dissolved | 0.0706 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Sulfur (S)-Dissolved | 3.2 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908479 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Tin (Sn)-Dissolved | 0.000110 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Titanium (Ti)-Dissolved | 0.00098 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908479 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|----------|------------|--------|----------|-----------|-----------|----------|
| L2743056-8 SW25_SW_20221210 Sampled By: Client on 11-DEC-22 @ 12:35 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Uranium (U)-Dissolved | 0.000779 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Vanadium (V)-Dissolved | 0.00042 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Zinc (Zn)-Dissolved | 0.0056 | <T | 0.0030 | mg/L | | 16-DEC-22 | R5908479 |
| Zirconium (Zr)-Dissolved | 0.000224 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-DEC-22 | R5908599 |
| Chemical Oxygen Demand | 77 | | 10 | mg/L | 14-DEC-22 | 17-DEC-22 | R5908136 |
| Oil and Grease, Total | 1.2 | | 1.0 | mg/L | 20-DEC-22 | 20-DEC-22 | R5911738 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2743056-9 SW02_SW_20221210 Sampled By: Client on 11-DEC-22 @ 12:55 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 6.47 | | 0 | mg/L | | 16-DEC-22 | R5907998 |
| pH, Client Supplied | 8.69 | | 0.10 | pH | | 16-DEC-22 | R5907998 |
| Temperature, Client Supplied | .27 | | 0 | Degree C | | 16-DEC-22 | R5907998 |
| Physical Tests | | | | | | | |
| Color, True | 164 | | 2.0 | CU | | 14-DEC-22 | R5906761 |
| Conductivity (EC) | 110 | | 1.0 | uS/cm | | 14-DEC-22 | R5907083 |
| Hardness (as CaCO3) | 65.4 | | 0.51 | mg/L | | 19-DEC-22 | |
| pH | 6.94 | | 0.10 | pH | | 14-DEC-22 | R5907083 |
| Total Suspended Solids | <0.5 | <W | 3.0 | mg/L | | 15-DEC-22 | R5907877 |
| Total Dissolved Solids | 94 | | 13 | mg/L | | 15-DEC-22 | R5907878 |
| Turbidity | 0.71 | | 0.10 | NTU | | 14-DEC-22 | R5906797 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 2.0 | | 2.0 | mg/L | | 17-DEC-22 | R5908837 |
| Alkalinity, Total (as CaCO3) | 57.2 | | 2.0 | mg/L | | 14-DEC-22 | R5907083 |
| Ammonia, Total (as N) | 0.062 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908216 |
| Ammonia, Un-ionized (as N) | 0.002 | <DL | 0.010 | mg/L | | 19-DEC-22 | |
| Chloride (Cl) | 0.39 | | 0.10 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Fluoride (F) | 0.020 | | 0.020 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Nitrate (as N) | 0.024 | <T | 0.020 | mg/L | | 14-DEC-22 | R5907116 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-DEC-22 | R5907116 |
| Total Kjeldahl Nitrogen | 0.936 | | 0.050 | mg/L | 14-DEC-22 | 15-DEC-22 | R5907876 |
| Orthophosphate-Dissolved (as P) | <0.0010 | | 0.0010 | mg/L | 14-DEC-22 | 16-DEC-22 | R5907716 |
| Sulfate (SO4) | 0.20 | <DL | 0.30 | mg/L | | 14-DEC-22 | R5907116 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Free | 0.0001 | <DL | 0.0020 | mg/L | | 20-DEC-22 | R5908856 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 32.3 | | 0.50 | mg/L | 15-DEC-22 | 23-DEC-22 | R5911499 |
| Total Organic Carbon | 33.0 | | 0.50 | mg/L | | 21-DEC-22 | R5910216 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-9 SW02_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 12:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Organic / Inorganic Carbon | | | | | | | |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.0754 | | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Antimony (Sb)-Total | 0.000040 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908436 |
| Arsenic (As)-Total | 0.00061 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Barium (Ba)-Total | 0.00846 | <DL | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Beryllium (Be)-Total | 0.0000067 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Boron (B)-Total | 0.0025 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Cadmium (Cd)-Total | 0.000006 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908436 |
| Calcium (Ca)-Total | 16.0 | | 0.20 | mg/L | | 16-DEC-22 | R5908436 |
| Cesium (Cs)-Total | 0.0000040 | <DL | 0.000010 | mg/L | | 16-DEC-22 | R5908436 |
| Chromium (Cr)-Total | 0.00038 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Cobalt (Co)-Total | 0.000215 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908436 |
| Copper (Cu)-Total | 0.00026 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Iron (Fe)-Total | 0.482 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Lead (Pb)-Total | 0.00017 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Lithium (Li)-Total | 0.0018 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Magnesium (Mg)-Total | 6.73 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Manganese (Mn)-Total | 0.0744 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 20-DEC-22 | R5908978 |
| Molybdenum (Mo)-Total | 0.000085 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Nickel (Ni)-Total | 0.00048 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Phosphorus (P)-Total | 0.005 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Potassium (K)-Total | 0.40 | <DL | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Rubidium (Rb)-Total | 0.00109 | | 0.00020 | mg/L | | 16-DEC-22 | R5908436 |
| Selenium (Se)-Total | 0.000140 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Silicon (Si)-Total | 5.72 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Sodium (Na)-Total | 1.13 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Strontium (Sr)-Total | 0.0262 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Sulfur (S)-Total | <0.2 | <W | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908436 |
| Thorium (Th)-Total | 0.00002 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Tin (Sn)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Titanium (Ti)-Total | 0.00219 | | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Uranium (U)-Total | 0.0000340 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Vanadium (V)-Total | 0.00030 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Zinc (Zn)-Total | 0.0060 | <T | 0.0030 | mg/L | | 16-DEC-22 | R5908436 |
| Zirconium (Zr)-Total | 0.000116 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-9 SW02_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 12:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-DEC-22 | R5908318 |
| Aluminum (Al)-Dissolved | 0.0472 | | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Antimony (Sb)-Dissolved | 0.000030 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908479 |
| Arsenic (As)-Dissolved | 0.000623 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Barium (Ba)-Dissolved | 0.00782 | <DL | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Beryllium (Be)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Boron (B)-Dissolved | 0.0020 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Cadmium (Cd)-Dissolved | 0.0000050 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908479 |
| Calcium (Ca)-Dissolved | 15.2 | | 0.20 | mg/L | | 16-DEC-22 | R5908479 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 16-DEC-22 | R5908479 |
| Chromium (Cr)-Dissolved | 0.00021 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Cobalt (Co)-Dissolved | 0.000154 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908479 |
| Copper (Cu)-Dissolved | 0.00022 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Iron (Fe)-Dissolved | 0.335 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Lead (Pb)-Dissolved | 0.00005 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Lithium (Li)-Dissolved | 0.0020 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Magnesium (Mg)-Dissolved | 6.68 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Manganese (Mn)-Dissolved | 0.0583 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908980 |
| Molybdenum (Mo)-Dissolved | 0.000060 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Nickel (Ni)-Dissolved | 0.00036 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Phosphorus (P)-Dissolved | <0.005 | <W | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Potassium (K)-Dissolved | 0.38 | <DL | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Rubidium (Rb)-Dissolved | 0.00104 | | 0.00020 | mg/L | | 16-DEC-22 | R5908479 |
| Selenium (Se)-Dissolved | 0.000110 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Silicon (Si)-Dissolved | 5.62 | | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Sodium (Na)-Dissolved | 1.07 | | 0.10 | mg/L | | 16-DEC-22 | R5908479 |
| Strontium (Sr)-Dissolved | 0.0247 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Sulfur (S)-Dissolved | <0.2 | <W | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908479 |
| Thorium (Th)-Dissolved | 0.00001 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Titanium (Ti)-Dissolved | 0.00084 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Uranium (U)-Dissolved | 0.0000310 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Vanadium (V)-Dissolved | 0.00026 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Zinc (Zn)-Dissolved | 0.0012 | <DL | 0.0030 | mg/L | | 16-DEC-22 | R5908479 |
| Zirconium (Zr)-Dissolved | 0.000130 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L2743056-9 SW02_SW_20221210 Sampled By: Client on 11-DEC-22 @ 12:55 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-DEC-22 | R5908599 |
| Chemical Oxygen Demand | 107 | | 10 | mg/L | 14-DEC-22 | 20-DEC-22 | R5909516 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 20-DEC-22 | 20-DEC-22 | R5911738 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2743056-10 SW26_SW_20221210 Sampled By: Client on 11-DEC-22 @ 14:25 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 11.16 | | 0 | mg/L | | 16-DEC-22 | R5907998 |
| pH, Client Supplied | 8.39 | | 0.10 | pH | | 16-DEC-22 | R5907998 |
| Temperature, Client Supplied | 1.13 | | 0 | Degree C | | 16-DEC-22 | R5907998 |
| Physical Tests | | | | | | | |
| Color, True | 101 | | 2.0 | CU | | 14-DEC-22 | R5906761 |
| Conductivity (EC) | 304 | | 1.0 | uS/cm | | 14-DEC-22 | R5907083 |
| Hardness (as CaCO3) | 163 | | 0.51 | mg/L | | 19-DEC-22 | |
| pH | 7.71 | | 0.10 | pH | | 14-DEC-22 | R5907083 |
| Total Suspended Solids | 3.5 | | 3.0 | mg/L | | 15-DEC-22 | R5907877 |
| Total Dissolved Solids | 214 | | 20 | mg/L | | 15-DEC-22 | R5907878 |
| Turbidity | 6.02 | | 0.10 | NTU | | 14-DEC-22 | R5906797 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | <0.2 | <W | 2.0 | mg/L | | 17-DEC-22 | R5908837 |
| Alkalinity, Total (as CaCO3) | 146 | | 2.0 | mg/L | | 14-DEC-22 | R5907083 |
| Ammonia, Total (as N) | 0.048 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908216 |
| Ammonia, Un-ionized (as N) | 0.001 | <DL | 0.010 | mg/L | | 19-DEC-22 | |
| Chloride (Cl) | 8.59 | | 0.10 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Fluoride (F) | 0.051 | | 0.020 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Nitrate (as N) | 0.068 | <T | 0.020 | mg/L | | 14-DEC-22 | R5907116 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-DEC-22 | R5907116 |
| Total Kjeldahl Nitrogen | 0.831 | | 0.050 | mg/L | 14-DEC-22 | 15-DEC-22 | R5907876 |
| Orthophosphate-Dissolved (as P) | 0.0032 | | 0.0010 | mg/L | 14-DEC-22 | 16-DEC-22 | R5907716 |
| Sulfate (SO4) | 9.95 | | 0.30 | mg/L | | 14-DEC-22 | R5907116 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0004 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 20-DEC-22 | R5908856 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 25.2 | | 0.50 | mg/L | 15-DEC-22 | 23-DEC-22 | R5911499 |
| Total Organic Carbon | 25.2 | | 0.50 | mg/L | | 21-DEC-22 | R5910216 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.208 | | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Antimony (Sb)-Total | 0.000075 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908436 |
| Arsenic (As)-Total | 0.00098 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-10 SW26_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 14:25 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Barium (Ba)-Total | 0.0219 | | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Beryllium (Be)-Total | 0.0000089 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Boron (B)-Total | 0.0100 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Cadmium (Cd)-Total | 0.000011 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908436 |
| Calcium (Ca)-Total | 41.9 | | 0.20 | mg/L | | 16-DEC-22 | R5908436 |
| Cesium (Cs)-Total | 0.0000255 | | 0.000010 | mg/L | | 16-DEC-22 | R5908436 |
| Chromium (Cr)-Total | 0.00058 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Cobalt (Co)-Total | 0.000210 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908436 |
| Copper (Cu)-Total | 0.00146 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Iron (Fe)-Total | 0.487 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Lead (Pb)-Total | 0.00019 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Lithium (Li)-Total | 0.0046 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Magnesium (Mg)-Total | 15.1 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Manganese (Mn)-Total | 0.0350 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Mercury (Hg)-Total | 0.000005 | <T | 0.0000050 | mg/L | | 20-DEC-22 | R5908978 |
| Molybdenum (Mo)-Total | 0.000520 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Nickel (Ni)-Total | 0.00136 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Phosphorus (P)-Total | 0.010 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Potassium (K)-Total | 1.65 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Rubidium (Rb)-Total | 0.00199 | | 0.00020 | mg/L | | 16-DEC-22 | R5908436 |
| Selenium (Se)-Total | 0.000135 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Silicon (Si)-Total | 5.02 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Silver (Ag)-Total | 0.000002 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Sodium (Na)-Total | 4.05 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Strontium (Sr)-Total | 0.0908 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Sulfur (S)-Total | 3.4 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908436 |
| Thorium (Th)-Total | 0.00005 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Tin (Sn)-Total | 0.00005 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Titanium (Ti)-Total | 0.00738 | | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Uranium (U)-Total | 0.000948 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Vanadium (V)-Total | 0.00090 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Zinc (Zn)-Total | 0.0155 | | 0.0030 | mg/L | | 16-DEC-22 | R5908436 |
| Zirconium (Zr)-Total | 0.000350 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-DEC-22 | R5908318 |
| Aluminum (Al)-Dissolved | 0.0094 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Antimony (Sb)-Dissolved | 0.000065 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908479 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|------------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-10 SW26_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 14:25 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Arsenic (As)-Dissolved | 0.000938 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Barium (Ba)-Dissolved | 0.0194 | | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Boron (B)-Dissolved | 0.0090 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Cadmium (Cd)-Dissolved | 0.0000060 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908479 |
| Calcium (Ca)-Dissolved | 40.4 | | 0.20 | mg/L | | 16-DEC-22 | R5908479 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 16-DEC-22 | R5908479 |
| Chromium (Cr)-Dissolved | 0.00015 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Cobalt (Co)-Dissolved | 0.000112 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908479 |
| Copper (Cu)-Dissolved | 0.00120 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Iron (Fe)-Dissolved | 0.206 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Lithium (Li)-Dissolved | 0.0048 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Magnesium (Mg)-Dissolved | 15.0 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Manganese (Mn)-Dissolved | 0.0255 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908980 |
| Molybdenum (Mo)-Dissolved | 0.000516 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Nickel (Ni)-Dissolved | 0.00112 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Phosphorus (P)-Dissolved | 0.010 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Potassium (K)-Dissolved | 1.62 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Rubidium (Rb)-Dissolved | 0.00153 | | 0.00020 | mg/L | | 16-DEC-22 | R5908479 |
| Selenium (Se)-Dissolved | 0.000145 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Silicon (Si)-Dissolved | 4.56 | | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Sodium (Na)-Dissolved | 3.81 | | 0.10 | mg/L | | 16-DEC-22 | R5908479 |
| Strontium (Sr)-Dissolved | 0.0878 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Sulfur (S)-Dissolved | 3.6 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908479 |
| Thorium (Th)-Dissolved | 0.00004 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Titanium (Ti)-Dissolved | 0.00112 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Uranium (U)-Dissolved | 0.000907 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Vanadium (V)-Dissolved | 0.00042 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Zinc (Zn)-Dissolved | 0.0134 | | 0.0030 | mg/L | | 16-DEC-22 | R5908479 |
| Zirconium (Zr)-Dissolved | 0.000252 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-DEC-22 | R5908599 |
| Chemical Oxygen Demand | 79 | | 10 | mg/L | 14-DEC-22 | 20-DEC-22 | R5909516 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|---------|----------|-----------|-----------|----------|
| L2743056-10 SW26_SW_20221210 Sampled By: Client on 11-DEC-22 @ 14:25 Matrix: SW | | | | | | | |
| Aggregate Organics | | | | | | | |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 20-DEC-22 | 20-DEC-22 | R5911738 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2743056-11 SW27_SW_20221210 Sampled By: Client on 11-DEC-22 @ 14:45 Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 7.19 | | 0 | mg/L | | 16-DEC-22 | R5907998 |
| pH, Client Supplied | 9.01 | | 0.10 | pH | | 16-DEC-22 | R5907998 |
| Temperature, Client Supplied | 1.67 | | 0 | Degree C | | 16-DEC-22 | R5907998 |
| Physical Tests | | | | | | | |
| Color, True | 93.4 | | 2.0 | CU | | 14-DEC-22 | R5906761 |
| Conductivity (EC) | 339 | | 1.0 | uS/cm | | 14-DEC-22 | R5907083 |
| Hardness (as CaCO3) | 178 | | 0.51 | mg/L | | 19-DEC-22 | |
| pH | 7.64 | | 0.10 | pH | | 14-DEC-22 | R5907083 |
| Total Suspended Solids | 8.5 | | 3.0 | mg/L | | 15-DEC-22 | R5907877 |
| Total Dissolved Solids | 222 | | 20 | mg/L | | 15-DEC-22 | R5907878 |
| Turbidity | 11.1 | | 0.10 | NTU | | 14-DEC-22 | R5906797 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 0.8 | <DL | 2.0 | mg/L | | 17-DEC-22 | R5908837 |
| Alkalinity, Total (as CaCO3) | 185 | | 2.0 | mg/L | | 14-DEC-22 | R5907083 |
| Ammonia, Total (as N) | 0.040 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908216 |
| Ammonia, Un-ionized (as N) | 0.004 | <DL | 0.010 | mg/L | | 19-DEC-22 | |
| Chloride (Cl) | 9.61 | | 0.10 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Fluoride (F) | 0.056 | | 0.020 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Nitrate (as N) | 0.058 | <T | 0.020 | mg/L | | 14-DEC-22 | R5907116 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-DEC-22 | R5907116 |
| Total Kjeldahl Nitrogen | 1.04 | | 0.050 | mg/L | 14-DEC-22 | 15-DEC-22 | R5907876 |
| Orthophosphate-Dissolved (as P) | 0.0045 | | 0.0010 | mg/L | 14-DEC-22 | 16-DEC-22 | R5907716 |
| Sulfate (SO4) | 12.4 | | 0.30 | mg/L | | 14-DEC-22 | R5907116 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0005 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Total | 0.0006 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 20-DEC-22 | R5908856 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 23.5 | | 0.50 | mg/L | 15-DEC-22 | 23-DEC-22 | R5911499 |
| Total Organic Carbon | 24.2 | | 0.50 | mg/L | | 21-DEC-22 | R5910216 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.433 | | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Antimony (Sb)-Total | 0.000075 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908436 |
| Arsenic (As)-Total | 0.00097 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Barium (Ba)-Total | 0.0219 | | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Beryllium (Be)-Total | 0.0000277 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-11 SW27_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 14:45 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Boron (B)-Total | 0.0105 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Cadmium (Cd)-Total | 0.000015 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908436 |
| Calcium (Ca)-Total | 46.1 | | 0.20 | mg/L | | 16-DEC-22 | R5908436 |
| Cesium (Cs)-Total | 0.0000515 | | 0.000010 | mg/L | | 16-DEC-22 | R5908436 |
| Chromium (Cr)-Total | 0.00112 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Cobalt (Co)-Total | 0.000370 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908436 |
| Copper (Cu)-Total | 0.00164 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Iron (Fe)-Total | 0.757 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Lead (Pb)-Total | 0.00032 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Lithium (Li)-Total | 0.0056 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Magnesium (Mg)-Total | 16.9 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Manganese (Mn)-Total | 0.0962 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908978 |
| Molybdenum (Mo)-Total | 0.000530 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Nickel (Ni)-Total | 0.00170 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Phosphorus (P)-Total | 0.020 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Potassium (K)-Total | 1.79 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Rubidium (Rb)-Total | 0.00238 | | 0.00020 | mg/L | | 16-DEC-22 | R5908436 |
| Selenium (Se)-Total | 0.000170 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Silicon (Si)-Total | 5.90 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Silver (Ag)-Total | 0.000010 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Sodium (Na)-Total | 4.88 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Strontium (Sr)-Total | 0.0985 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Sulfur (S)-Total | 4.4 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Tellurium (Te)-Total | 0.00002 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Thallium (Tl)-Total | 0.000005 | <DL | 0.00030 | mg/L | | 16-DEC-22 | R5908436 |
| Thorium (Th)-Total | 0.00008 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Tin (Sn)-Total | 0.00006 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Titanium (Ti)-Total | 0.0139 | | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Uranium (U)-Total | 0.00113 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Vanadium (V)-Total | 0.00160 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Zinc (Zn)-Total | 0.0150 | | 0.0030 | mg/L | | 16-DEC-22 | R5908436 |
| Zirconium (Zr)-Total | 0.000510 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-DEC-22 | R5908318 |
| Aluminum (Al)-Dissolved | 0.0086 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Antimony (Sb)-Dissolved | 0.000065 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908479 |
| Arsenic (As)-Dissolved | 0.000853 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Barium (Ba)-Dissolved | 0.0175 | | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Beryllium (Be)-Dissolved | 0.000008 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-11 SW27_SW_20221210 Sampled By: Client on 11-DEC-22 @ 14:45 Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Boron (B)-Dissolved | 0.0095 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Cadmium (Cd)-Dissolved | 0.0000120 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908479 |
| Calcium (Ca)-Dissolved | 42.9 | | 0.20 | mg/L | | 16-DEC-22 | R5908479 |
| Cesium (Cs)-Dissolved | 0.0000020 | <DL | 0.000010 | mg/L | | 16-DEC-22 | R5908479 |
| Chromium (Cr)-Dissolved | 0.00012 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Cobalt (Co)-Dissolved | 0.000126 | <DL | 0.00050 | mg/L | | 16-DEC-22 | R5908479 |
| Copper (Cu)-Dissolved | 0.00122 | <T | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Iron (Fe)-Dissolved | 0.167 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Lead (Pb)-Dissolved | 0.00004 | <DL | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Lithium (Li)-Dissolved | 0.0052 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Magnesium (Mg)-Dissolved | 17.1 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Manganese (Mn)-Dissolved | 0.0422 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908980 |
| Molybdenum (Mo)-Dissolved | 0.000504 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Nickel (Ni)-Dissolved | 0.00116 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Phosphorus (P)-Dissolved | 0.005 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Potassium (K)-Dissolved | 1.81 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Rubidium (Rb)-Dissolved | 0.00146 | | 0.00020 | mg/L | | 16-DEC-22 | R5908479 |
| Selenium (Se)-Dissolved | 0.000140 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Silicon (Si)-Dissolved | 5.05 | | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Silver (Ag)-Dissolved | 0.0000020 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Sodium (Na)-Dissolved | 4.81 | | 0.10 | mg/L | | 16-DEC-22 | R5908479 |
| Strontium (Sr)-Dissolved | 0.0961 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Sulfur (S)-Dissolved | 4.6 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908479 |
| Thorium (Th)-Dissolved | 0.00003 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Titanium (Ti)-Dissolved | 0.00130 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Uranium (U)-Dissolved | 0.00106 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Vanadium (V)-Dissolved | 0.00052 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Zinc (Zn)-Dissolved | 0.0066 | <T | 0.0030 | mg/L | | 16-DEC-22 | R5908479 |
| Zirconium (Zr)-Dissolved | 0.000256 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-DEC-22 | R5908599 |
| Chemical Oxygen Demand | 81 | | 10 | mg/L | 14-DEC-22 | 20-DEC-22 | R5909516 |
| Oil and Grease, Total | 0.6 | <DL | 1.0 | mg/L | 20-DEC-22 | 20-DEC-22 | R5911738 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |
| L2743056-12 SW21A_SW_20221210 Sampled By: Client on 11-DEC-22 @ 14:55 | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L2743056-12 SW21A_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 14:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Field Tests | | | | | | | |
| Dissolved Oxygen, Client Supplied | 0 | | 0 | mg/L | | 16-DEC-22 | R5907998 |
| pH, Client Supplied | 8.97 | | 0.10 | pH | | 16-DEC-22 | R5907998 |
| Temperature, Client Supplied | -0.14 | | 0 | Degree C | | 16-DEC-22 | R5907998 |
| Physical Tests | | | | | | | |
| Color, True | 70.8 | | 2.0 | CU | | 14-DEC-22 | R5906761 |
| Conductivity (EC) | 423 | | 1.0 | uS/cm | | 14-DEC-22 | R5907083 |
| Hardness (as CaCO3) | 203 | | 0.51 | mg/L | | 19-DEC-22 | |
| pH | 7.37 | | 0.10 | pH | | 14-DEC-22 | R5907083 |
| Total Suspended Solids | 7.0 | | 3.0 | mg/L | | 15-DEC-22 | R5907877 |
| Total Dissolved Solids | 266 | | 20 | mg/L | | 15-DEC-22 | R5907878 |
| Turbidity | 4.93 | | 0.10 | NTU | | 14-DEC-22 | R5906797 |
| Anions and Nutrients | | | | | | | |
| Acidity (as CaCO3) | 1.6 | <DL | 2.0 | mg/L | | 17-DEC-22 | R5908837 |
| Alkalinity, Total (as CaCO3) | 203 | | 2.0 | mg/L | | 14-DEC-22 | R5907083 |
| Ammonia, Total (as N) | 0.024 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908216 |
| Ammonia, Un-ionized (as N) | 0.002 | <DL | 0.010 | mg/L | | 19-DEC-22 | |
| Chloride (Cl) | 22.4 | | 0.10 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Fluoride (F) | 0.050 | | 0.020 | mg/L | 14-DEC-22 | 14-DEC-22 | R5907116 |
| Nitrate (as N) | <0.002 | <W | 0.020 | mg/L | | 14-DEC-22 | R5907116 |
| Nitrite (as N) | <0.001 | <W | 0.010 | mg/L | | 14-DEC-22 | R5907116 |
| Total Kjeldahl Nitrogen | 0.933 | | 0.050 | mg/L | 14-DEC-22 | 15-DEC-22 | R5907876 |
| Orthophosphate-Dissolved (as P) | 0.0437 | | 0.0010 | mg/L | 14-DEC-22 | 16-DEC-22 | R5907716 |
| Sulfate (SO4) | 3.50 | <T | 0.30 | mg/L | | 14-DEC-22 | R5907116 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | 0.0006 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Total | 0.0008 | <DL | 0.0020 | mg/L | | 19-DEC-22 | R5908856 |
| Cyanide, Free | <0.0001 | <W | 0.0020 | mg/L | | 20-DEC-22 | R5908856 |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon | 24.7 | | 0.50 | mg/L | 15-DEC-22 | 23-DEC-22 | R5911499 |
| Total Organic Carbon | 24.7 | | 0.50 | mg/L | | 21-DEC-22 | R5910216 |
| Total Metals | | | | | | | |
| Aluminum (Al)-Total | 0.145 | | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Antimony (Sb)-Total | 0.000055 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908436 |
| Arsenic (As)-Total | 0.00099 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Barium (Ba)-Total | 0.0250 | | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Beryllium (Be)-Total | 0.0000100 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Bismuth (Bi)-Total | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Boron (B)-Total | 0.0105 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Cadmium (Cd)-Total | 0.000012 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908436 |
| Calcium (Ca)-Total | 50.5 | | 0.20 | mg/L | | 16-DEC-22 | R5908436 |
| Cesium (Cs)-Total | 0.0000140 | | 0.000010 | mg/L | | 16-DEC-22 | R5908436 |
| Chromium (Cr)-Total | 0.00054 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-12 SW21A_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 14:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Total Metals | | | | | | | |
| Cobalt (Co)-Total | 0.000980 | <T | 0.00050 | mg/L | | 16-DEC-22 | R5908436 |
| Copper (Cu)-Total | 0.00044 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Iron (Fe)-Total | 1.13 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Lead (Pb)-Total | 0.00013 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Lithium (Li)-Total | 0.0070 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Magnesium (Mg)-Total | 21.0 | | 0.020 | mg/L | | 16-DEC-22 | R5908436 |
| Manganese (Mn)-Total | 1.05 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Mercury (Hg)-Total | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908978 |
| Molybdenum (Mo)-Total | 0.000245 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Nickel (Ni)-Total | 0.00172 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Phosphorus (P)-Total | 0.085 | | 0.050 | mg/L | | 16-DEC-22 | R5908436 |
| Potassium (K)-Total | 2.65 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Rubidium (Rb)-Total | 0.00244 | | 0.00020 | mg/L | | 16-DEC-22 | R5908436 |
| Selenium (Se)-Total | 0.000125 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908436 |
| Silicon (Si)-Total | 6.87 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Silver (Ag)-Total | <0.000001 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Sodium (Na)-Total | 10.6 | | 0.10 | mg/L | | 16-DEC-22 | R5908436 |
| Strontium (Sr)-Total | 0.123 | | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Sulfur (S)-Total | 1.4 | | 0.50 | mg/L | | 16-DEC-22 | R5908436 |
| Tellurium (Te)-Total | <0.00002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Thallium (Tl)-Total | <0.000005 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908436 |
| Thorium (Th)-Total | 0.00004 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908436 |
| Tin (Sn)-Total | 0.00004 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Titanium (Ti)-Total | 0.00494 | | 0.0020 | mg/L | | 16-DEC-22 | R5908436 |
| Tungsten (W)-Total | <0.00001 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908436 |
| Uranium (U)-Total | 0.000617 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908436 |
| Vanadium (V)-Total | 0.00080 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Zinc (Zn)-Total | 0.0010 | <DL | 0.0030 | mg/L | | 16-DEC-22 | R5908436 |
| Zirconium (Zr)-Total | 0.000340 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908436 |
| Dissolved Metals | | | | | | | |
| Dissolved Metals Filtration Location | LAB | | | | | 16-DEC-22 | R5908318 |
| Aluminum (Al)-Dissolved | 0.0058 | <T | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Antimony (Sb)-Dissolved | 0.000050 | <DL | 0.00060 | mg/L | | 16-DEC-22 | R5908479 |
| Arsenic (As)-Dissolved | 0.000908 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Barium (Ba)-Dissolved | 0.0213 | | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Beryllium (Be)-Dissolved | 0.000006 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Bismuth (Bi)-Dissolved | <0.000002 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Boron (B)-Dissolved | 0.0095 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Cadmium (Cd)-Dissolved | 0.0000080 | <DL | 0.000017 | mg/L | | 16-DEC-22 | R5908479 |
| Calcium (Ca)-Dissolved | 46.5 | | 0.20 | mg/L | | 16-DEC-22 | R5908479 |
| Cesium (Cs)-Dissolved | 0.0000010 | <DL | 0.000010 | mg/L | | 16-DEC-22 | R5908479 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------|------------|-----------|-------|-----------|-----------|----------|
| L2743056-12 SW21A_SW_20221210 | | | | | | | |
| Sampled By: Client on 11-DEC-22 @ 14:55 | | | | | | | |
| Matrix: SW | | | | | | | |
| Dissolved Metals | | | | | | | |
| Chromium (Cr)-Dissolved | 0.00011 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Cobalt (Co)-Dissolved | 0.000662 | <T | 0.00050 | mg/L | | 16-DEC-22 | R5908479 |
| Copper (Cu)-Dissolved | 0.00028 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Iron (Fe)-Dissolved | 0.556 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Lead (Pb)-Dissolved | 0.00002 | <DL | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Lithium (Li)-Dissolved | 0.0070 | <DL | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Magnesium (Mg)-Dissolved | 21.1 | | 0.020 | mg/L | | 16-DEC-22 | R5908479 |
| Manganese (Mn)-Dissolved | 0.843 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Mercury (Hg)-Dissolved | <0.000005 | <W | 0.0000050 | mg/L | | 20-DEC-22 | R5908980 |
| Molybdenum (Mo)-Dissolved | 0.000258 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Nickel (Ni)-Dissolved | 0.00148 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Phosphorus (P)-Dissolved | 0.050 | | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Potassium (K)-Dissolved | 2.60 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Rubidium (Rb)-Dissolved | 0.00215 | | 0.00020 | mg/L | | 16-DEC-22 | R5908479 |
| Selenium (Se)-Dissolved | 0.000145 | <T | 0.000050 | mg/L | | 16-DEC-22 | R5908479 |
| Silicon (Si)-Dissolved | 6.51 | | 0.050 | mg/L | | 16-DEC-22 | R5908479 |
| Silver (Ag)-Dissolved | <0.0000005 | <W | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Sodium (Na)-Dissolved | 10.5 | | 0.10 | mg/L | | 16-DEC-22 | R5908479 |
| Strontium (Sr)-Dissolved | 0.115 | | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Sulfur (S)-Dissolved | 1.4 | | 0.50 | mg/L | | 16-DEC-22 | R5908479 |
| Tellurium (Te)-Dissolved | <0.00001 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Thallium (Tl)-Dissolved | <0.000002 | <W | 0.00030 | mg/L | | 16-DEC-22 | R5908479 |
| Thorium (Th)-Dissolved | 0.00001 | <DL | 0.00010 | mg/L | | 16-DEC-22 | R5908479 |
| Tin (Sn)-Dissolved | <0.000005 | <W | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Titanium (Ti)-Dissolved | 0.00040 | <DL | 0.0020 | mg/L | | 16-DEC-22 | R5908479 |
| Tungsten (W)-Dissolved | <0.000002 | <W | 0.010 | mg/L | | 16-DEC-22 | R5908479 |
| Uranium (U)-Dissolved | 0.000593 | <DL | 0.0050 | mg/L | | 16-DEC-22 | R5908479 |
| Vanadium (V)-Dissolved | 0.00030 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Zinc (Zn)-Dissolved | 0.0006 | <DL | 0.0030 | mg/L | | 16-DEC-22 | R5908479 |
| Zirconium (Zr)-Dissolved | 0.000232 | <DL | 0.0010 | mg/L | | 16-DEC-22 | R5908479 |
| Aggregate Organics | | | | | | | |
| Biochemical Oxygen Demand | <2.0 | | 2.0 | mg/L | | 14-DEC-22 | R5908599 |
| Chemical Oxygen Demand | 77 | | 10 | mg/L | 14-DEC-22 | 20-DEC-22 | R5909516 |
| Oil and Grease, Total | 0.8 | <DL | 1.0 | mg/L | 20-DEC-22 | 20-DEC-22 | R5911738 |
| Report Remarks : Parameter Exceeded Recommended Holding Time Prior to Analysis | | | | | | | |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

| QC Type Description | Parameter | Qualifier | Applies to Sample Number(s) |
|---------------------------|--------------------------|-----------|---|
| Laboratory Control Sample | Sulfur (S)-Dissolved | MES | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Laboratory Control Sample | Sulfur (S)-Dissolved | MES | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Barium (Ba)-Dissolved | MS-B | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Dissolved | MS-B | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Dissolved | MS-B | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Manganese (Mn)-Dissolved | MS-B | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Dissolved | MS-B | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Dissolved | MS-B | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Barium (Ba)-Total | MS-B | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Calcium (Ca)-Total | MS-B | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Magnesium (Mg)-Total | MS-B | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Manganese (Mn)-Total | MS-B | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Sodium (Na)-Total | MS-B | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Strontium (Sr)-Total | MS-B | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |
| Matrix Spike | Ammonia, Total (as N) | MS-B | L2743056-1, -2, -3, -4, -5, -6, -7, -8 |
| Matrix Spike | Total Kjeldahl Nitrogen | MS-B | L2743056-3 |
| Matrix Spike | Total Organic Carbon | MS-B | L2743056-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| MES | Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME). |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|----------|---|--|
| ACY-MISA-TB | Effluent | Acidity (as CaCO ₃) | APHA 2310 B-POTENTIOMETRIC TITRATION |
| Aqueous matrices are analyzed by potentiometry. Acidity reported includes acidity caused by hydrolyzable metals present in the sample. | | | |
| ALK-MISA-TB | Effluent | Alkalinity, Total (as CaCO ₃) | APHA 2320 B-Auto-Pot. Titration |
| This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. | | | |
| BOD-TB | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B- BIOCHEMICAL OXYGEN DEMAND |
| All forms of biochemical oxygen demand (BOD) are determined by diluting and incubating a sample for a specified time period, and measuring the oxygen depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a glass fibre filter prior to dilution. Carbonaceous BOD (CBOD) is determined by adding a nitrification inhibitor to the diluted sample prior to incubation. | | | |
| CL-L-IC-N-TB | Water | Chloride in Water by IC (Low Level) | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| CN-FREE-MISA-CFA-WT | Effluent | Free Cyanide by Continuous Flow Analyzer | ASTM D7237-10 (modified) |
| This analysis is carried out using procedures adapted from ASTM Method 7237 "Free Cyanide with Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection". Free cyanide is determined by in-line gas diffusion at pH 6 with final determination by colourimetric analysis. | | | |
| CN-T-MISA-CFA-WT | Effluent | Total Cyanide by CFA | ISO 14403-2:2012 (modified) |
| This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. | | | |
| Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, but it would be less than 1% and could be as low as zero. | | | |
| CN-WAD-MISA-CFA-WT | Effluent | Weak Acid Dissociable Cyanide by CFA | APHA 4500-CN CYANIDE (modified) |
| This analysis is carried out using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis. | | | |

Reference Information

| | | | |
|--|----------|-----------------------------------|--|
| COD-TB | Water | Chemical Oxygen Demand | APHA 5220D |
| This analysis is carried out using procedures adapted from APHA Method 5220 "Chemical Oxygen Demand (COD)". Chemical oxygen demand is determined using the closed reflux colourimetric method. | | | |
| COLOUR-TB | Water | Colour, True | APHA 2120 C |
| True Colour in aqueous matrices is analyzed using colourimetric detection. This is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using a platinum-cobalt standard. | | | |
| DO-CLIENT-TB | Water | Dissolved Oxygen, Client Supplied | Result supplied by Client |
| DOC-WT | Effluent | Dissolved Organic Carbon for MISA | APHA 5310 B-Instrumental |
| EC-MISA-TB | Effluent | Conductivity (EC) | APHA 2510 B-ELECTRODE |
| This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode. | | | |
| F-IC-N-TB | Water | Fluoride in Water by IC | EPA 300.1 (mod) |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | | | |
| HARDNESS-CALC-TB | Effluent | Hardness (as CaCO ₃) | CALCULATION |
| HG-DIS-WT | Effluent | Mercury (Hg)-Dissolved for MISA | SW846 7470A |
| HG-TOT-WT | Effluent | Mercury (Hg)-Total for MISA | SW846 7470A |
| MET-D-MISA-TB | Effluent | Dissolved Metals in Water (MISA) | APHA 3030B/6020B (mod) |
| Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS. | | | |
| Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method. | | | |
| MET-T-MISA-TB | Effluent | Total Metals in Water (MISA) | EPA 200.2/6020B (mod) |
| Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS. | | | |
| Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method. | | | |
| NH3-MISA-F-TB | Effluent | Ammonia by Discrete Analyzer | catnr 157/158 062217/99321057 (modified) |
| Ammonia is determined by Flow-injection analysis with fluorescence detection | | | |
| NH3-UNION-CALC-TB | Effluent | Un-ionized ammonia | Calculation |
| NO2-MISA-IC-TB | Effluent | Nitrite in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| NO3-MISA-IC-TB | Effluent | Nitrate in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| OGG-TOT-WT | Effluent | Oil and Grease, Total for MISA | APHA 5520 B-Hexane Gravimetric |
| PH-CLIENT-TB | Water | pH | Result supplied by Client |
| PH-MISA-TB | Effluent | pH | APHA 4500-H-ELECTRODE |
| This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode | | | |
| PO4-DO-COL-TB | Water | Dissolved Orthophosphate | APHA 4500-P B, F, G (modified) |
| Phosphorus in aqueous matrices is analyzed using discrete Analyzer with colourimetric detection. | | | |
| RADIO-RADIUM226-SR | Water | Radium 226 | CANMET 1986 |

Reference Information

| | | | |
|--|----------|------------------------------|--------------------------------------|
| SO4-MISA-IC-TB | Effluent | Sulfate in Water by IC | EPA 300.1 (mod) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| TDS-MISA-TB | Effluent | Total Dissolved Solids | APHA 2540 C (modified) |
| Aqueous matrices are analyzed using gravimetry and evaporation | | | |
| TEMP-CLIENT-TB | Water | Temperature | Result supplied by Client |
| TKN-F-TB | Water | TKN in Water by Fluorescence | catnr 157/158, 062818/99334821 |
| Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection | | | |
| TKN-F-WT | Water | TKN in Water by Fluorescence | J. ENVIRON. MONIT., 2005,7,37-42,RSC |
| Total Kjeldahl Nitrogen is determined using block digestion followed by Flow-injection analysis with fluorescence detection | | | |
| TOC-WT | Water | Total Organic Carbon | APHA 5310B |
| Sample is injected into a heated reaction chamber which is packed with an oxidative catalyst. The water is vaporized and the organic carbon is oxidized to carbon dioxide. The carbon dioxide is transported in a carrier gas and is measured by a non-dispersive infrared detector. | | | |
| TSS-MISA-TB | Effluent | Total Suspended Solids | APHA 2540 D (modified) |
| Aqueous matrices are analyzed using gravimetry | | | |
| TURBIDITY-TB | Water | Turbidity | APHA 2130 B-Nephelometer |
| Aqueous matrices are analyzed using nephelometry with the light scatter measured at a 90° angle. | | | |

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| SR | Saskatchewan Research Council - Saskatoon, Saskatchewan, Can |
| TB | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

Page 1 of 25

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| BOD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5908599 | | | | | | | |
| WG3776096-3 | DUP | L2743053-1 | | | | | | |
| Biochemical Oxygen Demand | | <2.0 | <2.0 | RPD-NA | mg/L | N/A | 30 | 14-DEC-22 |
| WG3776096-2 | LCS | | | | | | | |
| Biochemical Oxygen Demand | | | 105.2 | | % | | 85-115 | 14-DEC-22 |
| WG3776096-1 | MB | | | | | | | |
| Biochemical Oxygen Demand | | | <2.0 | | mg/L | | 2 | 14-DEC-22 |
| CL-L-IC-N-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5907116 | | | | | | | |
| WG3776116-3 | DUP | L2743056-1 | | | | | | |
| Chloride (Cl) | | 5.69 | 5.47 | | mg/L | 4.1 | 20 | 14-DEC-22 |
| WG3776116-2 | LCS | | | | | | | |
| Chloride (Cl) | | | 100.3 | | % | | 90-110 | 14-DEC-22 |
| WG3776116-1 | MB | | | | | | | |
| Chloride (Cl) | | | <0.10 | | mg/L | | 0.1 | 14-DEC-22 |
| WG3776116-4 | MS | L2743056-2 | | | | | | |
| Chloride (Cl) | | | 99.0 | | % | | 75-125 | 14-DEC-22 |
| COD-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5908136 | | | | | | | |
| WG3776169-3 | DUP | L2742963-2 | | | | | | |
| Chemical Oxygen Demand | | 42 | 41 | | mg/L | 2.9 | 20 | 17-DEC-22 |
| WG3776169-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 107.4 | | % | | 85-115 | 17-DEC-22 |
| WG3776169-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 17-DEC-22 |
| WG3776169-4 | MS | L2742963-3 | | | | | | |
| Chemical Oxygen Demand | | | 104.2 | | % | | 75-125 | 17-DEC-22 |
| Batch | R5909516 | | | | | | | |
| WG3776170-3 | DUP | L2743056-11 | | | | | | |
| Chemical Oxygen Demand | | 81 | 76 | | mg/L | 6.6 | 20 | 20-DEC-22 |
| WG3776170-2 | LCS | | | | | | | |
| Chemical Oxygen Demand | | | 98.7 | | % | | 85-115 | 20-DEC-22 |
| WG3776170-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <10 | | mg/L | | 10 | 20-DEC-22 |
| WG3776170-4 | MS | L2743056-12 | | | | | | |
| Chemical Oxygen Demand | | | 92.8 | | % | | 75-125 | 20-DEC-22 |
| COLOUR-TB | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|------------|--------------------|---------|-----------|-------|-------|--------|-----------|
| COLOUR-TB | | Water | | | | | | |
| Batch | R5906761 | | | | | | | |
| WG3776114-3 | DUP | L2743056-10 | | | | | | |
| Color, True | | 101 | 101 | | CU | 0.0 | 20 | 14-DEC-22 |
| WG3776114-2 | LCS | | | | | | | |
| Color, True | | | 100.9 | | % | | 85-115 | 14-DEC-22 |
| WG3776114-1 | MB | | | | | | | |
| Color, True | | | <2.0 | | CU | | 2 | 14-DEC-22 |
| F-IC-N-TB | | Water | | | | | | |
| Batch | R5907116 | | | | | | | |
| WG3776116-3 | DUP | L2743056-1 | | | | | | |
| Fluoride (F) | | 0.038 | 0.029 | J | mg/L | 0.009 | 0.04 | 14-DEC-22 |
| WG3776116-2 | LCS | | | | | | | |
| Fluoride (F) | | | 101.1 | | % | | 90-110 | 14-DEC-22 |
| WG3776116-1 | MB | | | | | | | |
| Fluoride (F) | | | <0.020 | | mg/L | | 0.02 | 14-DEC-22 |
| WG3776116-4 | MS | L2743056-2 | | | | | | |
| Fluoride (F) | | | 104.1 | | % | | 75-125 | 14-DEC-22 |
| PO4-DO-COL-TB | | Water | | | | | | |
| Batch | R5907716 | | | | | | | |
| WG3776115-3 | DUP | L2743056-1 | | | | | | |
| Orthophosphate-Dissolved (as P) | | 0.0064 | 0.0065 | | mg/L | 2.8 | 20 | 16-DEC-22 |
| WG3776115-2 | LCS | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 96.9 | | % | | 80-120 | 16-DEC-22 |
| WG3776115-1 | MB | | | | | | | |
| Orthophosphate-Dissolved (as P) | | | <0.0010 | | mg/L | | 0.001 | 16-DEC-22 |
| WG3776115-4 | MS | L2743056-2 | | | | | | |
| Orthophosphate-Dissolved (as P) | | | 118.4 | | % | | 70-130 | 16-DEC-22 |
| TKN-F-TB | | Water | | | | | | |
| Batch | R5907876 | | | | | | | |
| WG3776153-3 | DUP | L2742930-1 | | | | | | |
| Total Kjeldahl Nitrogen | | 43.6 | 41.8 | | mg/L | 4.4 | 20 | 15-DEC-22 |
| WG3776155-3 | DUP | L2743056-9 | | | | | | |
| Total Kjeldahl Nitrogen | | 0.936 | 0.892 | | mg/L | 4.9 | 20 | 15-DEC-22 |
| WG3776153-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 104.6 | | % | | 75-125 | 15-DEC-22 |
| WG3776155-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 97.3 | | % | | 75-125 | 15-DEC-22 |
| WG3776153-1 | MB | | | | | | | |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| TKN-F-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5907876 | | | | | | | |
| WG3776153-1 MB | | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 15-DEC-22 |
| WG3776155-1 MB | | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 15-DEC-22 |
| WG3776153-4 MS | | L2742963-1 | | | | | | |
| Total Kjeldahl Nitrogen | | | 114.3 | | % | | 70-130 | 15-DEC-22 |
| Batch | R5911285 | | | | | | | |
| WG3776709-3 DUP | | L2743396-1 | | | | | | |
| Total Kjeldahl Nitrogen | | 49.9 | 47.6 | | mg/L | 4.6 | 20 | 24-DEC-22 |
| WG3776709-2 LCS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 111.1 | | % | | 75-125 | 24-DEC-22 |
| WG3776709-1 MB | | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 24-DEC-22 |
| WG3776709-4 MS | | L2743396-1 | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 24-DEC-22 |
| TKN-F-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5910196 | | | | | | | |
| WG3776691-3 DUP | | L2742716-1 | | | | | | |
| Total Kjeldahl Nitrogen | | 4.98 | 4.55 | | mg/L | 9.2 | 20 | 21-DEC-22 |
| WG3776691-2 LCS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 102.0 | | % | | 75-125 | 21-DEC-22 |
| WG3776691-1 MB | | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.050 | | mg/L | | 0.05 | 21-DEC-22 |
| WG3776691-4 MS | | L2742716-1 | | | | | | |
| Total Kjeldahl Nitrogen | | | 104.9 | | % | | 70-130 | 21-DEC-22 |
| TOC-WT | | | | | | | | |
| | Water | | | | | | | |
| Batch | R5910216 | | | | | | | |
| WG3776695-3 DUP | | L2743056-3 | | | | | | |
| Total Organic Carbon | | 35.1 | 35.3 | | mg/L | 0.4 | 20 | 21-DEC-22 |
| WG3776695-2 LCS | | | | | | | | |
| Total Organic Carbon | | | 98.7 | | % | | 80-120 | 21-DEC-22 |
| WG3776695-1 MB | | | | | | | | |
| Total Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 21-DEC-22 |
| WG3776695-4 MS | | L2743056-3 | | | | | | |
| Total Organic Carbon | | | N/A | MS-B | % | | - | 21-DEC-22 |
| TURBIDITY-TB | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| TURBIDITY-TB | | Water | | | | | | |
| Batch | R5906797 | | | | | | | |
| WG3776140-3 | DUP | L2743056-5 | | | | | | |
| Turbidity | | 4.32 | 4.43 | | NTU | 2.5 | 15 | 14-DEC-22 |
| WG3776140-2 | LCS | | | | | | | |
| Turbidity | | | 101.0 | | % | | 85-115 | 14-DEC-22 |
| WG3776140-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 14-DEC-22 |
| ACY-MISA-TB | | Effluent | | | | | | |
| Batch | R5908837 | | | | | | | |
| WG3776113-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 100.9 | | % | | 85-115 | 17-DEC-22 |
| WG3776113-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | 2.6 | | mg/L | | 3 | 17-DEC-22 |
| ALK-MISA-TB | | Effluent | | | | | | |
| Batch | R5907083 | | | | | | | |
| WG3776111-3 | DUP | L2743056-12 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 203 | 198 | | mg/L | 2.6 | 20 | 14-DEC-22 |
| Alkalinity, Phenolphthalein | | <0.2 | <0.2 | RPD-NA | mg/L | N/A | 25 | 14-DEC-22 |
| WG3776111-2 | LCS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 103.6 | | % | | 85-115 | 14-DEC-22 |
| WG3776111-1 | MB | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | <0.2 | | mg/L | | 2 | 14-DEC-22 |
| Alkalinity, Phenolphthalein | | | <0.2 | | mg/L | | 2 | 14-DEC-22 |
| CN-FREE-MISA-CFA-WT | | Effluent | | | | | | |
| Batch | R5908856 | | | | | | | |
| WG3776598-3 | DUP | L2743053-1 | | | | | | |
| Cyanide, Free | | 0.0161 | 0.0158 | | mg/L | 2.1 | 20 | 20-DEC-22 |
| WG3776598-2 | LCS | | | | | | | |
| Cyanide, Free | | | 103.2 | | % | | 80-120 | 20-DEC-22 |
| WG3776598-1 | MB | | | | | | | |
| Cyanide, Free | | | 0.0009 | | mg/L | | 0.002 | 20-DEC-22 |
| WG3776598-4 | MS | L2743053-1 | | | | | | |
| Cyanide, Free | | | 82.6 | | % | | 75-125 | 20-DEC-22 |
| CN-T-MISA-CFA-WT | | Effluent | | | | | | |
| Batch | R5908856 | | | | | | | |
| WG3776598-3 | DUP | L2743053-1 | | | | | | |
| Cyanide, Total | | 0.0268 | 0.0270 | | mg/L | 1.2 | 20 | 19-DEC-22 |
| WG3776598-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|----------|-----------|-------|-----|--------|-----------|
| CN-T-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5908856 | | | | | | | |
| WG3776598-2 | LCS | | | | | | | |
| Cyanide, Total | | | 92.9 | | % | | 80-120 | 19-DEC-22 |
| WG3776598-1 | MB | | | | | | | |
| Cyanide, Total | | | <0.0002 | | mg/L | | 0.002 | 19-DEC-22 |
| WG3776598-4 | MS | L2743053-1 | | | | | | |
| Cyanide, Total | | | 79.2 | | % | | 75-125 | 19-DEC-22 |
| CN-WAD-MISA-CFA-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5908856 | | | | | | | |
| WG3776598-3 | DUP | L2743053-1 | | | | | | |
| Cyanide, Weak Acid Diss | | 0.0208 | 0.0221 | | mg/L | 6.1 | 20 | 19-DEC-22 |
| WG3776598-2 | LCS | | | | | | | |
| Cyanide, Weak Acid Diss | | | 101.4 | | % | | 80-120 | 19-DEC-22 |
| WG3776598-1 | MB | | | | | | | |
| Cyanide, Weak Acid Diss | | | <0.0001 | | mg/L | | 0.002 | 19-DEC-22 |
| WG3776598-4 | MS | L2743053-1 | | | | | | |
| Cyanide, Weak Acid Diss | | | 104.6 | | % | | 75-125 | 19-DEC-22 |
| DOC-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5911499 | | | | | | | |
| WG3776554-3 | DUP | WG3776554-5 | | | | | | |
| Dissolved Organic Carbon | | 3.62 | 3.54 | | mg/L | 2.3 | 25 | 23-DEC-22 |
| WG3776554-2 | LCS | | | | | | | |
| Dissolved Organic Carbon | | | 95.9 | | % | | 70-130 | 23-DEC-22 |
| WG3776554-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <0.50 | | mg/L | | 0.5 | 23-DEC-22 |
| EC-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5907083 | | | | | | | |
| WG3776111-3 | DUP | L2743056-12 | | | | | | |
| Conductivity (EC) | | 423 | 423 | | uS/cm | 0.0 | 10 | 14-DEC-22 |
| WG3776111-2 | LCS | | | | | | | |
| Conductivity (EC) | | | 98.0 | | % | | 90-110 | 14-DEC-22 |
| WG3776111-1 | MB | | | | | | | |
| Conductivity (EC) | | | 0.2 | | uS/cm | | 2 | 14-DEC-22 |
| HG-DIS-WT | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5908980 | | | | | | | |
| WG3776596-3 | DUP | L2743304-17 | | | | | | |
| Mercury (Hg)-Dissolved | | <0.000005 | 0.000005 | RPD-NA | mg/L | N/A | 20 | 20-DEC-22 |
| WG3776596-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON POW 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|-----|----------|-----------|
| HG-DIS-WT | | Effluent | | | | | | |
| Batch | R5908980 | | | | | | | |
| WG3776596-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 100.0 | | % | | 80-120 | 20-DEC-22 |
| WG3776596-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000005 | | mg/L | | 0.000005 | 20-DEC-22 |
| WG3776596-4 | MS | L2743056-1 | | | | | | |
| Mercury (Hg)-Dissolved | | | 89.8 | | % | | 70-130 | 20-DEC-22 |
| HG-TOT-WT | | Effluent | | | | | | |
| Batch | R5908978 | | | | | | | |
| WG3776581-7 | DUP | L2743304-17 | | | | | | |
| Mercury (Hg)-Total | | 0.000010 | 0.000005 | | mg/L | 13 | 20 | 20-DEC-22 |
| WG3776581-6 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 101.0 | | % | | 80-120 | 20-DEC-22 |
| WG3776581-5 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000005 | | mg/L | | 0.000005 | 20-DEC-22 |
| WG3776581-8 | MS | L2743056-1 | | | | | | |
| Mercury (Hg)-Total | | | 95.3 | | % | | 70-130 | 20-DEC-22 |
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5908479 | | | | | | | |
| WG3776403-7 | DUP | L2743056-5 | | | | | | |
| Aluminum (Al)-Dissolved | | 0.0176 | 0.0176 | | mg/L | 0.4 | 20 | 16-DEC-22 |
| Antimony (Sb)-Dissolved | | 0.000040 | 0.000040 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Arsenic (As)-Dissolved | | 0.000739 | 0.000757 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Barium (Ba)-Dissolved | | 0.0167 | 0.0162 | | mg/L | 3.2 | 20 | 16-DEC-22 |
| Beryllium (Be)-Dissolved | | 0.000012 | 0.000010 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Bismuth (Bi)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Boron (B)-Dissolved | | 0.0080 | 0.0080 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Cadmium (Cd)-Dissolved | | 0.0000080 | 0.0000070 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Calcium (Ca)-Dissolved | | 38.2 | 38.2 | | mg/L | 0.2 | 20 | 16-DEC-22 |
| Cesium (Cs)-Dissolved | | 0.0000010 | 0.0000010 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Chromium (Cr)-Dissolved | | 0.00017 | 0.00018 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Cobalt (Co)-Dissolved | | 0.000258 | 0.000240 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Copper (Cu)-Dissolved | | 0.00048 | 0.00048 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Iron (Fe)-Dissolved | | 0.542 | 0.552 | | mg/L | 1.8 | 20 | 16-DEC-22 |
| Lead (Pb)-Dissolved | | 0.00004 | 0.00005 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Lithium (Li)-Dissolved | | 0.0062 | 0.0062 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|------------|-----------|-------|----------|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5908479 | | | | | | | |
| WG3776403-7 | DUP | L2743056-5 | | | | | | |
| Magnesium (Mg)-Dissolved | | 16.5 | 16.9 | | mg/L | 2.0 | 20 | 16-DEC-22 |
| Manganese (Mn)-Dissolved | | 0.105 | 0.106 | | mg/L | 0.4 | 20 | 16-DEC-22 |
| Molybdenum (Mo)-Dissolved | | 0.000210 | 0.000212 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Nickel (Ni)-Dissolved | | 0.00122 | 0.00124 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Phosphorus (P)-Dissolved | | 0.020 | 0.020 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Potassium (K)-Dissolved | | 1.52 | 1.51 | | mg/L | 0.5 | 20 | 16-DEC-22 |
| Rubidium (Rb)-Dissolved | | 0.00131 | 0.00137 | | mg/L | 4.8 | 20 | 16-DEC-22 |
| Selenium (Se)-Dissolved | | 0.000125 | 0.000165 | J | mg/L | 0.000038 | 0.0001 | 16-DEC-22 |
| Silicon (Si)-Dissolved | | 7.22 | 7.45 | | mg/L | 3.2 | 20 | 16-DEC-22 |
| Silver (Ag)-Dissolved | | <0.0000005 | <0.0000005 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Sodium (Na)-Dissolved | | 12.5 | 12.7 | | mg/L | 1.2 | 20 | 16-DEC-22 |
| Strontium (Sr)-Dissolved | | 0.0950 | 0.0974 | | mg/L | 2.5 | 20 | 16-DEC-22 |
| Sulfur (S)-Dissolved | | 1.6 | 1.6 | | mg/L | 2.6 | 20 | 16-DEC-22 |
| Tellurium (Te)-Dissolved | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Thallium (Tl)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Thorium (Th)-Dissolved | | 0.00004 | 0.00004 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Tin (Sn)-Dissolved | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Titanium (Ti)-Dissolved | | 0.00120 | 0.00126 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Tungsten (W)-Dissolved | | <0.000002 | <0.000002 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Uranium (U)-Dissolved | | 0.000468 | 0.000466 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Vanadium (V)-Dissolved | | 0.00034 | 0.00038 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Zinc (Zn)-Dissolved | | 0.0018 | 0.0018 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Zirconium (Zr)-Dissolved | | 0.000360 | 0.000360 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| WG3776403-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 105.4 | | % | | 80-120 | 16-DEC-22 |
| Antimony (Sb)-Dissolved | | | 100.3 | | % | | 80-120 | 16-DEC-22 |
| Arsenic (As)-Dissolved | | | 109.3 | | % | | 80-120 | 16-DEC-22 |
| Barium (Ba)-Dissolved | | | 103.8 | | % | | 80-120 | 16-DEC-22 |
| Beryllium (Be)-Dissolved | | | 99.0 | | % | | 80-120 | 16-DEC-22 |
| Bismuth (Bi)-Dissolved | | | 99.2 | | % | | 80-120 | 16-DEC-22 |
| Boron (B)-Dissolved | | | 91.0 | | % | | 80-120 | 16-DEC-22 |
| Cadmium (Cd)-Dissolved | | | 101.5 | | % | | 80-120 | 16-DEC-22 |
| Calcium (Ca)-Dissolved | | | 96.8 | | % | | 80-120 | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5908479 | | | | | | | |
| WG3776403-2 LCS | | | | | | | | |
| Cesium (Cs)-Dissolved | | | 99.3 | | % | | 80-120 | 16-DEC-22 |
| Chromium (Cr)-Dissolved | | | 104.0 | | % | | 80-120 | 16-DEC-22 |
| Cobalt (Co)-Dissolved | | | 102.2 | | % | | 80-120 | 16-DEC-22 |
| Copper (Cu)-Dissolved | | | 103.1 | | % | | 80-120 | 16-DEC-22 |
| Iron (Fe)-Dissolved | | | 98.7 | | % | | 80-120 | 16-DEC-22 |
| Lead (Pb)-Dissolved | | | 100.8 | | % | | 80-120 | 16-DEC-22 |
| Lithium (Li)-Dissolved | | | 100.5 | | % | | 80-120 | 16-DEC-22 |
| Magnesium (Mg)-Dissolved | | | 106.0 | | % | | 80-120 | 16-DEC-22 |
| Manganese (Mn)-Dissolved | | | 102.0 | | % | | 80-120 | 16-DEC-22 |
| Molybdenum (Mo)-Dissolved | | | 99.97 | | % | | 80-120 | 16-DEC-22 |
| Nickel (Ni)-Dissolved | | | 102.0 | | % | | 80-120 | 16-DEC-22 |
| Phosphorus (P)-Dissolved | | | 104.6 | | % | | 70-130 | 16-DEC-22 |
| Potassium (K)-Dissolved | | | 107.7 | | % | | 80-120 | 16-DEC-22 |
| Rubidium (Rb)-Dissolved | | | 105.6 | | % | | 80-120 | 16-DEC-22 |
| Selenium (Se)-Dissolved | | | 100.5 | | % | | 80-120 | 16-DEC-22 |
| Silicon (Si)-Dissolved | | | 103.1 | | % | | 60-140 | 16-DEC-22 |
| Silver (Ag)-Dissolved | | | 89.7 | | % | | 80-120 | 16-DEC-22 |
| Sodium (Na)-Dissolved | | | 107.1 | | % | | 80-120 | 16-DEC-22 |
| Strontium (Sr)-Dissolved | | | 99.0 | | % | | 80-120 | 16-DEC-22 |
| Sulfur (S)-Dissolved | | | 128.1 | MES | % | | 80-120 | 16-DEC-22 |
| Tellurium (Te)-Dissolved | | | 100.7 | | % | | 80-120 | 16-DEC-22 |
| Thallium (Tl)-Dissolved | | | 100.7 | | % | | 80-120 | 16-DEC-22 |
| Thorium (Th)-Dissolved | | | 98.5 | | % | | 80-120 | 16-DEC-22 |
| Tin (Sn)-Dissolved | | | 99.3 | | % | | 80-120 | 16-DEC-22 |
| Titanium (Ti)-Dissolved | | | 102.8 | | % | | 80-120 | 16-DEC-22 |
| Tungsten (W)-Dissolved | | | 102.6 | | % | | 80-120 | 16-DEC-22 |
| Uranium (U)-Dissolved | | | 100.8 | | % | | 80-120 | 16-DEC-22 |
| Vanadium (V)-Dissolved | | | 105.2 | | % | | 80-120 | 16-DEC-22 |
| Zinc (Zn)-Dissolved | | | 99.7 | | % | | 80-120 | 16-DEC-22 |
| Zirconium (Zr)-Dissolved | | | 98.6 | | % | | 80-120 | 16-DEC-22 |
| WG3776403-6 LCS | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 105.8 | | % | | 80-120 | 16-DEC-22 |
| Antimony (Sb)-Dissolved | | | 98.9 | | % | | 80-120 | 16-DEC-22 |
| Arsenic (As)-Dissolved | | | 108.8 | | % | | 80-120 | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5908479 | | | | | | | |
| WG3776403-6 | LCS | | | | | | | |
| Barium (Ba)-Dissolved | | | 106.1 | | % | | 80-120 | 16-DEC-22 |
| Beryllium (Be)-Dissolved | | | 102.2 | | % | | 80-120 | 16-DEC-22 |
| Bismuth (Bi)-Dissolved | | | 98.0 | | % | | 80-120 | 16-DEC-22 |
| Boron (B)-Dissolved | | | 96.2 | | % | | 80-120 | 16-DEC-22 |
| Cadmium (Cd)-Dissolved | | | 101.5 | | % | | 80-120 | 16-DEC-22 |
| Calcium (Ca)-Dissolved | | | 99.8 | | % | | 80-120 | 16-DEC-22 |
| Cesium (Cs)-Dissolved | | | 99.6 | | % | | 80-120 | 16-DEC-22 |
| Chromium (Cr)-Dissolved | | | 104.8 | | % | | 80-120 | 16-DEC-22 |
| Cobalt (Co)-Dissolved | | | 103.4 | | % | | 80-120 | 16-DEC-22 |
| Copper (Cu)-Dissolved | | | 104.6 | | % | | 80-120 | 16-DEC-22 |
| Iron (Fe)-Dissolved | | | 102.5 | | % | | 80-120 | 16-DEC-22 |
| Lead (Pb)-Dissolved | | | 100.2 | | % | | 80-120 | 16-DEC-22 |
| Lithium (Li)-Dissolved | | | 103.2 | | % | | 80-120 | 16-DEC-22 |
| Magnesium (Mg)-Dissolved | | | 107.8 | | % | | 80-120 | 16-DEC-22 |
| Manganese (Mn)-Dissolved | | | 101.2 | | % | | 80-120 | 16-DEC-22 |
| Molybdenum (Mo)-Dissolved | | | 102.1 | | % | | 80-120 | 16-DEC-22 |
| Nickel (Ni)-Dissolved | | | 103.2 | | % | | 80-120 | 16-DEC-22 |
| Phosphorus (P)-Dissolved | | | 104.0 | | % | | 70-130 | 16-DEC-22 |
| Potassium (K)-Dissolved | | | 112.6 | | % | | 80-120 | 16-DEC-22 |
| Rubidium (Rb)-Dissolved | | | 102.0 | | % | | 80-120 | 16-DEC-22 |
| Selenium (Se)-Dissolved | | | 102.0 | | % | | 80-120 | 16-DEC-22 |
| Silicon (Si)-Dissolved | | | 108.7 | | % | | 60-140 | 16-DEC-22 |
| Silver (Ag)-Dissolved | | | 90.0 | | % | | 80-120 | 16-DEC-22 |
| Sodium (Na)-Dissolved | | | 105.2 | | % | | 80-120 | 16-DEC-22 |
| Strontium (Sr)-Dissolved | | | 98.2 | | % | | 80-120 | 16-DEC-22 |
| Sulfur (S)-Dissolved | | | 126.8 | MES | % | | 80-120 | 16-DEC-22 |
| Tellurium (Te)-Dissolved | | | 97.4 | | % | | 80-120 | 16-DEC-22 |
| Thallium (Tl)-Dissolved | | | 99.7 | | % | | 80-120 | 16-DEC-22 |
| Thorium (Th)-Dissolved | | | 98.2 | | % | | 80-120 | 16-DEC-22 |
| Tin (Sn)-Dissolved | | | 99.2 | | % | | 80-120 | 16-DEC-22 |
| Titanium (Ti)-Dissolved | | | 103.0 | | % | | 80-120 | 16-DEC-22 |
| Tungsten (W)-Dissolved | | | 99.7 | | % | | 80-120 | 16-DEC-22 |
| Uranium (U)-Dissolved | | | 99.2 | | % | | 80-120 | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5908479 | | | | | | | |
| WG3776403-6 | LCS | | | | | | | |
| Vanadium (V)-Dissolved | | | 106.9 | | % | | 80-120 | 16-DEC-22 |
| Zinc (Zn)-Dissolved | | | 100.9 | | % | | 80-120 | 16-DEC-22 |
| Zirconium (Zr)-Dissolved | | | 99.0 | | % | | 80-120 | 16-DEC-22 |
| WG3776403-1 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | 0.0004 | | mg/L | | 0.005 | 16-DEC-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 16-DEC-22 |
| Arsenic (As)-Dissolved | | | 0.0000164 | | mg/L | | 0.001 | 16-DEC-22 |
| Barium (Ba)-Dissolved | | | 0.000010 | | mg/L | | 0.01 | 16-DEC-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 16-DEC-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 16-DEC-22 |
| Boron (B)-Dissolved | | | 0.0010 | | mg/L | | 0.05 | 16-DEC-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000005 | | mg/L | | 0.000017 | 16-DEC-22 |
| Calcium (Ca)-Dissolved | | | 0.008 | | mg/L | | 0.2 | 16-DEC-22 |
| Cesium (Cs)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 16-DEC-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 16-DEC-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 16-DEC-22 |
| Copper (Cu)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 16-DEC-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 16-DEC-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 16-DEC-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 16-DEC-22 |
| Magnesium (Mg)-Dissolved | | | 0.0010 | | mg/L | | 0.02 | 16-DEC-22 |
| Manganese (Mn)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 16-DEC-22 |
| Molybdenum (Mo)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 16-DEC-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 16-DEC-22 |
| Phosphorus (P)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 16-DEC-22 |
| Potassium (K)-Dissolved | | | <0.01 | | mg/L | | 0.5 | 16-DEC-22 |
| Rubidium (Rb)-Dissolved | | | <0.000002 | | mg/L | | 0.0002 | 16-DEC-22 |
| Selenium (Se)-Dissolved | | | <0.000005 | | mg/L | | 0.00005 | 16-DEC-22 |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 16-DEC-22 |
| Silver (Ag)-Dissolved | | | <0.0000005 | | mg/L | | 0.0001 | 16-DEC-22 |
| Sodium (Na)-Dissolved | | | 0.005 | | mg/L | | 0.1 | 16-DEC-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 16-DEC-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 16-DEC-22 |
| Tellurium (Te)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-D-MISA-TB | | Effluent | | | | | | |
| Batch | R5908479 | | | | | | | |
| WG3776403-1 MB | | | | | | | | |
| Thallium (Tl)-Dissolved | | | <0.000002 | | mg/L | | 0.0003 | 16-DEC-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 16-DEC-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 16-DEC-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 16-DEC-22 |
| Tungsten (W)-Dissolved | | | 0.000006 | | mg/L | | 0.01 | 16-DEC-22 |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.005 | 16-DEC-22 |
| Vanadium (V)-Dissolved | | | 0.00008 | | mg/L | | 0.001 | 16-DEC-22 |
| Zinc (Zn)-Dissolved | | | <0.0002 | | mg/L | | 0.003 | 16-DEC-22 |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 16-DEC-22 |
| WG3776403-5 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | 0.0004 | | mg/L | | 0.005 | 16-DEC-22 |
| Antimony (Sb)-Dissolved | | | <0.000005 | | mg/L | | 0.0006 | 16-DEC-22 |
| Arsenic (As)-Dissolved | | | 0.0000082 | | mg/L | | 0.001 | 16-DEC-22 |
| Barium (Ba)-Dissolved | | | 0.000025 | | mg/L | | 0.01 | 16-DEC-22 |
| Beryllium (Be)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 16-DEC-22 |
| Bismuth (Bi)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 16-DEC-22 |
| Boron (B)-Dissolved | | | 0.0020 | | mg/L | | 0.05 | 16-DEC-22 |
| Cadmium (Cd)-Dissolved | | | <0.0000005 | | mg/L | | 0.000017 | 16-DEC-22 |
| Calcium (Ca)-Dissolved | | | 0.014 | | mg/L | | 0.2 | 16-DEC-22 |
| Cesium (Cs)-Dissolved | | | <0.0000005 | | mg/L | | 0.00001 | 16-DEC-22 |
| Chromium (Cr)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 16-DEC-22 |
| Cobalt (Co)-Dissolved | | | <0.000002 | | mg/L | | 0.0005 | 16-DEC-22 |
| Copper (Cu)-Dissolved | | | 0.00004 | | mg/L | | 0.001 | 16-DEC-22 |
| Iron (Fe)-Dissolved | | | <0.0005 | | mg/L | | 0.02 | 16-DEC-22 |
| Lead (Pb)-Dissolved | | | <0.00001 | | mg/L | | 0.00005 | 16-DEC-22 |
| Lithium (Li)-Dissolved | | | <0.0002 | | mg/L | | 0.05 | 16-DEC-22 |
| Magnesium (Mg)-Dissolved | | | 0.0020 | | mg/L | | 0.02 | 16-DEC-22 |
| Manganese (Mn)-Dissolved | | | 0.00004 | | mg/L | | 0.001 | 16-DEC-22 |
| Molybdenum (Mo)-Dissolved | | | 0.000008 | | mg/L | | 0.001 | 16-DEC-22 |
| Nickel (Ni)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 16-DEC-22 |
| Phosphorus (P)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 16-DEC-22 |
| Potassium (K)-Dissolved | | | 0.02 | | mg/L | | 0.5 | 16-DEC-22 |
| Rubidium (Rb)-Dissolved | | | 0.000006 | | mg/L | | 0.0002 | 16-DEC-22 |
| Selenium (Se)-Dissolved | | | 0.000010 | | mg/L | | 0.00005 | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|-------------------|------------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5908479 | | | | | | | |
| WG3776403-5 MB | | | | | | | | |
| Silicon (Si)-Dissolved | | | <0.005 | | mg/L | | 0.05 | 16-DEC-22 |
| Silver (Ag)-Dissolved | | | <0.0000005 | | mg/L | | 0.0001 | 16-DEC-22 |
| Sodium (Na)-Dissolved | | | 0.015 | | mg/L | | 0.1 | 16-DEC-22 |
| Strontium (Sr)-Dissolved | | | <0.00002 | | mg/L | | 0.001 | 16-DEC-22 |
| Sulfur (S)-Dissolved | | | <0.2 | | mg/L | | 0.5 | 16-DEC-22 |
| Tellurium (Te)-Dissolved | | | <0.00001 | | mg/L | | 0.001 | 16-DEC-22 |
| Thallium (Tl)-Dissolved | | | <0.000002 | | mg/L | | 0.0003 | 16-DEC-22 |
| Thorium (Th)-Dissolved | | | <0.00001 | | mg/L | | 0.0001 | 16-DEC-22 |
| Tin (Sn)-Dissolved | | | <0.000005 | | mg/L | | 0.001 | 16-DEC-22 |
| Titanium (Ti)-Dissolved | | | <0.00002 | | mg/L | | 0.002 | 16-DEC-22 |
| Tungsten (W)-Dissolved | | | 0.000004 | | mg/L | | 0.01 | 16-DEC-22 |
| Uranium (U)-Dissolved | | | <0.0000005 | | mg/L | | 0.005 | 16-DEC-22 |
| Vanadium (V)-Dissolved | | | 0.00004 | | mg/L | | 0.001 | 16-DEC-22 |
| Zinc (Zn)-Dissolved | | | 0.0002 | | mg/L | | 0.003 | 16-DEC-22 |
| Zirconium (Zr)-Dissolved | | | <0.000002 | | mg/L | | 0.001 | 16-DEC-22 |
| WG3776403-8 MS | | L2743056-7 | | | | | | |
| Aluminum (Al)-Dissolved | | | 104.1 | | % | | 70-130 | 16-DEC-22 |
| Antimony (Sb)-Dissolved | | | 98.5 | | % | | 70-130 | 16-DEC-22 |
| Arsenic (As)-Dissolved | | | 107.9 | | % | | 70-130 | 16-DEC-22 |
| Barium (Ba)-Dissolved | | | N/A | MS-B | % | | - | 16-DEC-22 |
| Beryllium (Be)-Dissolved | | | 106.9 | | % | | 70-130 | 16-DEC-22 |
| Bismuth (Bi)-Dissolved | | | 95.2 | | % | | 70-130 | 16-DEC-22 |
| Boron (B)-Dissolved | | | 98.9 | | % | | 70-130 | 16-DEC-22 |
| Cadmium (Cd)-Dissolved | | | 104.3 | | % | | 70-130 | 16-DEC-22 |
| Calcium (Ca)-Dissolved | | | N/A | MS-B | % | | - | 16-DEC-22 |
| Cesium (Cs)-Dissolved | | | 100.7 | | % | | 70-130 | 16-DEC-22 |
| Chromium (Cr)-Dissolved | | | 105.8 | | % | | 70-130 | 16-DEC-22 |
| Cobalt (Co)-Dissolved | | | 102.8 | | % | | 70-130 | 16-DEC-22 |
| Copper (Cu)-Dissolved | | | 102.8 | | % | | 70-130 | 16-DEC-22 |
| Iron (Fe)-Dissolved | | | 101.3 | | % | | 70-130 | 16-DEC-22 |
| Lead (Pb)-Dissolved | | | 101.1 | | % | | 70-130 | 16-DEC-22 |
| Lithium (Li)-Dissolved | | | 103.6 | | % | | 70-130 | 16-DEC-22 |
| Magnesium (Mg)-Dissolved | | | N/A | MS-B | % | | - | 16-DEC-22 |
| Manganese (Mn)-Dissolved | | | N/A | MS-B | % | | - | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5908479 | | | | | | | |
| WG3776403-8 MS | | L2743056-7 | | | | | | |
| Molybdenum (Mo)-Dissolved | | | 106.6 | | % | | 70-130 | 16-DEC-22 |
| Nickel (Ni)-Dissolved | | | 102.2 | | % | | 70-130 | 16-DEC-22 |
| Phosphorus (P)-Dissolved | | | 108.5 | | % | | 70-130 | 16-DEC-22 |
| Potassium (K)-Dissolved | | | 100.2 | | % | | 70-130 | 16-DEC-22 |
| Rubidium (Rb)-Dissolved | | | 103.7 | | % | | 70-130 | 16-DEC-22 |
| Selenium (Se)-Dissolved | | | 118.6 | | % | | 70-130 | 16-DEC-22 |
| Silicon (Si)-Dissolved | | | 96.7 | | % | | 70-130 | 16-DEC-22 |
| Silver (Ag)-Dissolved | | | 97.6 | | % | | 70-130 | 16-DEC-22 |
| Sodium (Na)-Dissolved | | | N/A | MS-B | % | | - | 16-DEC-22 |
| Strontium (Sr)-Dissolved | | | N/A | MS-B | % | | - | 16-DEC-22 |
| Sulfur (S)-Dissolved | | | 102.1 | | % | | 70-130 | 16-DEC-22 |
| Tellurium (Te)-Dissolved | | | 102.5 | | % | | 70-130 | 16-DEC-22 |
| Thallium (Tl)-Dissolved | | | 100.2 | | % | | 70-130 | 16-DEC-22 |
| Thorium (Th)-Dissolved | | | 101.9 | | % | | 70-130 | 16-DEC-22 |
| Tin (Sn)-Dissolved | | | 97.1 | | % | | 70-130 | 16-DEC-22 |
| Titanium (Ti)-Dissolved | | | 102.9 | | % | | 70-130 | 16-DEC-22 |
| Tungsten (W)-Dissolved | | | 102.6 | | % | | 70-130 | 16-DEC-22 |
| Uranium (U)-Dissolved | | | 102.6 | | % | | 70-130 | 16-DEC-22 |
| Vanadium (V)-Dissolved | | | 106.4 | | % | | 70-130 | 16-DEC-22 |
| Zinc (Zn)-Dissolved | | | 100.8 | | % | | 70-130 | 16-DEC-22 |
| Zirconium (Zr)-Dissolved | | | 105.4 | | % | | 70-130 | 16-DEC-22 |
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5908436 | | | | | | | |
| WG3776340-7 DUP | | L2743056-5 | | | | | | |
| Aluminum (Al)-Total | | 0.169 | 0.173 | | mg/L | 2.7 | 20 | 16-DEC-22 |
| Antimony (Sb)-Total | | 0.000045 | 0.000040 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Arsenic (As)-Total | | 0.00081 | 0.00082 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Barium (Ba)-Total | | 0.0176 | 0.0179 | | mg/L | 1.8 | 20 | 16-DEC-22 |
| Beryllium (Be)-Total | | 0.0000176 | 0.0000176 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Bismuth (Bi)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Boron (B)-Total | | 0.0100 | 0.0100 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Cadmium (Cd)-Total | | 0.000010 | 0.000010 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Calcium (Ca)-Total | | 40.3 | 40.8 | | mg/L | 1.2 | 20 | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|--------|-------------------|-----------|-----------|-------|----------|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch R5908436 | | | | | | | | |
| WG3776340-7 DUP | | L2743056-5 | | | | | | |
| Cesium (Cs)-Total | | 0.0000195 | 0.0000225 | | mg/L | 15 | 20 | 16-DEC-22 |
| Chromium (Cr)-Total | | 0.00054 | 0.00060 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Cobalt (Co)-Total | | 0.000425 | 0.000420 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Copper (Cu)-Total | | 0.00066 | 0.00066 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Iron (Fe)-Total | | 0.902 | 0.926 | | mg/L | 2.6 | 20 | 16-DEC-22 |
| Lead (Pb)-Total | | 0.00022 | 0.00015 | J | mg/L | 0.000067 | 0.0001 | 16-DEC-22 |
| Lithium (Li)-Total | | 0.0062 | 0.0062 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Magnesium (Mg)-Total | | 16.9 | 17.4 | | mg/L | 2.9 | 20 | 16-DEC-22 |
| Manganese (Mn)-Total | | 0.148 | 0.151 | | mg/L | 1.9 | 20 | 16-DEC-22 |
| Molybdenum (Mo)-Total | | 0.000220 | 0.000230 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Nickel (Ni)-Total | | 0.00146 | 0.00150 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Phosphorus (P)-Total | | 0.030 | 0.030 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Potassium (K)-Total | | 1.55 | 1.58 | | mg/L | 1.5 | 20 | 16-DEC-22 |
| Rubidium (Rb)-Total | | 0.00166 | 0.00177 | | mg/L | 6.1 | 20 | 16-DEC-22 |
| Selenium (Se)-Total | | 0.000150 | 0.000150 | | mg/L | 1.7 | 20 | 16-DEC-22 |
| Silicon (Si)-Total | | 7.62 | 7.51 | | mg/L | 1.4 | 20 | 16-DEC-22 |
| Silver (Ag)-Total | | 0.000001 | 0.000001 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Sodium (Na)-Total | | 12.8 | 13.0 | | mg/L | 1.4 | 20 | 16-DEC-22 |
| Strontium (Sr)-Total | | 0.101 | 0.104 | | mg/L | 3.3 | 20 | 16-DEC-22 |
| Sulfur (S)-Total | | 1.6 | 1.6 | | mg/L | 2.7 | 20 | 16-DEC-22 |
| Tellurium (Te)-Total | | <0.00002 | <0.00002 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Thallium (Tl)-Total | | <0.000005 | <0.000005 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Thorium (Th)-Total | | 0.00005 | 0.00005 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Tin (Sn)-Total | | 0.00005 | 0.00005 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Titanium (Ti)-Total | | 0.00537 | 0.00508 | | mg/L | 5.6 | 20 | 16-DEC-22 |
| Tungsten (W)-Total | | <0.00001 | <0.00001 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Uranium (U)-Total | | 0.000487 | 0.000495 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Vanadium (V)-Total | | 0.00070 | 0.00075 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Zinc (Zn)-Total | | 0.0040 | 0.0020 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| Zirconium (Zr)-Total | | 0.000386 | 0.000394 | RPD-NA | mg/L | N/A | 20 | 16-DEC-22 |
| WG3776340-2 LCS | | | | | | | | |
| Aluminum (Al)-Total | | | 105.1 | | % | | 80-120 | 16-DEC-22 |
| Antimony (Sb)-Total | | | 98.8 | | % | | 80-120 | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5908436 | | | | | | | |
| WG3776340-2 | LCS | | | | | | | |
| Arsenic (As)-Total | | | 107.4 | | % | | 80-120 | 16-DEC-22 |
| Barium (Ba)-Total | | | 102.5 | | % | | 80-120 | 16-DEC-22 |
| Beryllium (Be)-Total | | | 103.6 | | % | | 80-120 | 16-DEC-22 |
| Bismuth (Bi)-Total | | | 103.3 | | % | | 80-120 | 16-DEC-22 |
| Boron (B)-Total | | | 92.9 | | % | | 80-120 | 16-DEC-22 |
| Cadmium (Cd)-Total | | | 100.2 | | % | | 80-120 | 16-DEC-22 |
| Calcium (Ca)-Total | | | 104.2 | | % | | 80-120 | 16-DEC-22 |
| Cesium (Cs)-Total | | | 100.4 | | % | | 80-120 | 16-DEC-22 |
| Chromium (Cr)-Total | | | 103.8 | | % | | 80-120 | 16-DEC-22 |
| Cobalt (Co)-Total | | | 103.1 | | % | | 80-120 | 16-DEC-22 |
| Copper (Cu)-Total | | | 104.2 | | % | | 80-120 | 16-DEC-22 |
| Iron (Fe)-Total | | | 100.7 | | % | | 80-120 | 16-DEC-22 |
| Lead (Pb)-Total | | | 102.6 | | % | | 80-120 | 16-DEC-22 |
| Lithium (Li)-Total | | | 105.8 | | % | | 80-120 | 16-DEC-22 |
| Magnesium (Mg)-Total | | | 106.0 | | % | | 80-120 | 16-DEC-22 |
| Manganese (Mn)-Total | | | 101.5 | | % | | 80-120 | 16-DEC-22 |
| Molybdenum (Mo)-Total | | | 102.9 | | % | | 80-120 | 16-DEC-22 |
| Nickel (Ni)-Total | | | 103.4 | | % | | 80-120 | 16-DEC-22 |
| Phosphorus (P)-Total | | | 111.8 | | % | | 80-120 | 16-DEC-22 |
| Potassium (K)-Total | | | 108.2 | | % | | 80-120 | 16-DEC-22 |
| Rubidium (Rb)-Total | | | 105.0 | | % | | 80-120 | 16-DEC-22 |
| Selenium (Se)-Total | | | 100.9 | | % | | 80-120 | 16-DEC-22 |
| Silicon (Si)-Total | | | 102.8 | | % | | 80-120 | 16-DEC-22 |
| Silver (Ag)-Total | | | 90.2 | | % | | 80-120 | 16-DEC-22 |
| Sodium (Na)-Total | | | 109.7 | | % | | 80-120 | 16-DEC-22 |
| Strontium (Sr)-Total | | | 104.7 | | % | | 80-120 | 16-DEC-22 |
| Sulfur (S)-Total | | | 119.7 | | % | | 80-120 | 16-DEC-22 |
| Tellurium (Te)-Total | | | 98.3 | | % | | 80-120 | 16-DEC-22 |
| Thallium (Tl)-Total | | | 100.9 | | % | | 80-120 | 16-DEC-22 |
| Thorium (Th)-Total | | | 100.5 | | % | | 80-120 | 16-DEC-22 |
| Tin (Sn)-Total | | | 97.7 | | % | | 80-120 | 16-DEC-22 |
| Titanium (Ti)-Total | | | 98.6 | | % | | 80-120 | 16-DEC-22 |
| Tungsten (W)-Total | | | 102.5 | | % | | 80-120 | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5908436 | | | | | | | |
| WG3776340-2 LCS | | | | | | | | |
| Uranium (U)-Total | | | 107.3 | | % | | 80-120 | 16-DEC-22 |
| Vanadium (V)-Total | | | 104.8 | | % | | 80-120 | 16-DEC-22 |
| Zinc (Zn)-Total | | | 101.5 | | % | | 80-120 | 16-DEC-22 |
| Zirconium (Zr)-Total | | | 103.1 | | % | | 80-120 | 16-DEC-22 |
| WG3776340-6 LCS | | | | | | | | |
| Aluminum (Al)-Total | | | 101.3 | | % | | 80-120 | 16-DEC-22 |
| Antimony (Sb)-Total | | | 102.9 | | % | | 80-120 | 16-DEC-22 |
| Arsenic (As)-Total | | | 105.3 | | % | | 80-120 | 16-DEC-22 |
| Barium (Ba)-Total | | | 99.0 | | % | | 80-120 | 16-DEC-22 |
| Beryllium (Be)-Total | | | 98.2 | | % | | 80-120 | 16-DEC-22 |
| Bismuth (Bi)-Total | | | 99.1 | | % | | 80-120 | 16-DEC-22 |
| Boron (B)-Total | | | 91.9 | | % | | 80-120 | 16-DEC-22 |
| Cadmium (Cd)-Total | | | 98.9 | | % | | 80-120 | 16-DEC-22 |
| Calcium (Ca)-Total | | | 95.7 | | % | | 80-120 | 16-DEC-22 |
| Cesium (Cs)-Total | | | 99.2 | | % | | 80-120 | 16-DEC-22 |
| Chromium (Cr)-Total | | | 101.9 | | % | | 80-120 | 16-DEC-22 |
| Cobalt (Co)-Total | | | 101.5 | | % | | 80-120 | 16-DEC-22 |
| Copper (Cu)-Total | | | 99.0 | | % | | 80-120 | 16-DEC-22 |
| Iron (Fe)-Total | | | 96.4 | | % | | 80-120 | 16-DEC-22 |
| Lead (Pb)-Total | | | 97.8 | | % | | 80-120 | 16-DEC-22 |
| Lithium (Li)-Total | | | 99.1 | | % | | 80-120 | 16-DEC-22 |
| Magnesium (Mg)-Total | | | 105.7 | | % | | 80-120 | 16-DEC-22 |
| Manganese (Mn)-Total | | | 99.3 | | % | | 80-120 | 16-DEC-22 |
| Molybdenum (Mo)-Total | | | 97.5 | | % | | 80-120 | 16-DEC-22 |
| Nickel (Ni)-Total | | | 99.6 | | % | | 80-120 | 16-DEC-22 |
| Phosphorus (P)-Total | | | 104.8 | | % | | 80-120 | 16-DEC-22 |
| Potassium (K)-Total | | | 104.7 | | % | | 80-120 | 16-DEC-22 |
| Rubidium (Rb)-Total | | | 102.5 | | % | | 80-120 | 16-DEC-22 |
| Selenium (Se)-Total | | | 102.2 | | % | | 80-120 | 16-DEC-22 |
| Silicon (Si)-Total | | | 103.9 | | % | | 80-120 | 16-DEC-22 |
| Silver (Ag)-Total | | | 89.3 | | % | | 80-120 | 16-DEC-22 |
| Sodium (Na)-Total | | | 103.9 | | % | | 80-120 | 16-DEC-22 |
| Strontium (Sr)-Total | | | 96.4 | | % | | 80-120 | 16-DEC-22 |
| Sulfur (S)-Total | | | 118.6 | | % | | 80-120 | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5908436 | | | | | | | |
| WG3776340-6 | LCS | | | | | | | |
| Tellurium (Te)-Total | | | 99.4 | | % | | 80-120 | 16-DEC-22 |
| Thallium (Tl)-Total | | | 97.6 | | % | | 80-120 | 16-DEC-22 |
| Thorium (Th)-Total | | | 96.5 | | % | | 80-120 | 16-DEC-22 |
| Tin (Sn)-Total | | | 98.4 | | % | | 80-120 | 16-DEC-22 |
| Titanium (Ti)-Total | | | 99.7 | | % | | 80-120 | 16-DEC-22 |
| Tungsten (W)-Total | | | 97.9 | | % | | 80-120 | 16-DEC-22 |
| Uranium (U)-Total | | | 96.7 | | % | | 80-120 | 16-DEC-22 |
| Vanadium (V)-Total | | | 102.6 | | % | | 80-120 | 16-DEC-22 |
| Zinc (Zn)-Total | | | 99.7 | | % | | 80-120 | 16-DEC-22 |
| Zirconium (Zr)-Total | | | 97.0 | | % | | 80-120 | 16-DEC-22 |
| WG3776340-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | 0.0006 | | mg/L | | 0.005 | 16-DEC-22 |
| Antimony (Sb)-Total | | | 0.000010 | | mg/L | | 0.0006 | 16-DEC-22 |
| Arsenic (As)-Total | | | 0.00004 | | mg/L | | 0.001 | 16-DEC-22 |
| Barium (Ba)-Total | | | 0.00002 | | mg/L | | 0.01 | 16-DEC-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 16-DEC-22 |
| Bismuth (Bi)-Total | | | 0.00001 | | mg/L | | 0.001 | 16-DEC-22 |
| Boron (B)-Total | | | 0.0015 | | mg/L | | 0.05 | 16-DEC-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 16-DEC-22 |
| Calcium (Ca)-Total | | | 0.004 | | mg/L | | 0.2 | 16-DEC-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 16-DEC-22 |
| Chromium (Cr)-Total | | | 0.00004 | | mg/L | | 0.001 | 16-DEC-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 16-DEC-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 16-DEC-22 |
| Iron (Fe)-Total | | | <0.0005 | | mg/L | | 0.02 | 16-DEC-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 16-DEC-22 |
| Lithium (Li)-Total | | | <0.0002 | | mg/L | | 0.05 | 16-DEC-22 |
| Magnesium (Mg)-Total | | | 0.0048 | | mg/L | | 0.02 | 16-DEC-22 |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 16-DEC-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 16-DEC-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 16-DEC-22 |
| Phosphorus (P)-Total | | | 0.010 | | mg/L | | 0.05 | 16-DEC-22 |
| Potassium (K)-Total | | | 0.02 | | mg/L | | 0.5 | 16-DEC-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------------|------------|-----------|-------|-----|----------|-----------|
| MET-T-MISA-TB | | Effluent | | | | | | |
| Batch | R5908436 | | | | | | | |
| WG3776340-1 MB | | | | | | | | |
| Selenium (Se)-Total | | | 0.000010 | | mg/L | | 0.00005 | 16-DEC-22 |
| Silicon (Si)-Total | | | 0.024 | | mg/L | | 0.1 | 16-DEC-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 16-DEC-22 |
| Sodium (Na)-Total | | | 0.015 | | mg/L | | 0.1 | 16-DEC-22 |
| Strontium (Sr)-Total | | | 0.000010 | | mg/L | | 0.001 | 16-DEC-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 16-DEC-22 |
| Tellurium (Te)-Total | | | <0.00002 | | mg/L | | 0.001 | 16-DEC-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 16-DEC-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 16-DEC-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 16-DEC-22 |
| Titanium (Ti)-Total | | | <0.00001 | | mg/L | | 0.002 | 16-DEC-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 16-DEC-22 |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.005 | 16-DEC-22 |
| Vanadium (V)-Total | | | 0.00015 | | mg/L | | 0.001 | 16-DEC-22 |
| Zinc (Zn)-Total | | | 0.0020 | | mg/L | | 0.003 | 16-DEC-22 |
| Zirconium (Zr)-Total | | | <0.000002 | | mg/L | | 0.001 | 16-DEC-22 |
| WG3776340-5 MB | | | | | | | | |
| Aluminum (Al)-Total | | | 0.0028 | | mg/L | | 0.005 | 16-DEC-22 |
| Antimony (Sb)-Total | | | 0.000005 | | mg/L | | 0.0006 | 16-DEC-22 |
| Arsenic (As)-Total | | | 0.00004 | | mg/L | | 0.001 | 16-DEC-22 |
| Barium (Ba)-Total | | | <0.00001 | | mg/L | | 0.01 | 16-DEC-22 |
| Beryllium (Be)-Total | | | <0.0000001 | | mg/L | | 0.001 | 16-DEC-22 |
| Bismuth (Bi)-Total | | | <0.00001 | | mg/L | | 0.001 | 16-DEC-22 |
| Boron (B)-Total | | | 0.0015 | | mg/L | | 0.05 | 16-DEC-22 |
| Cadmium (Cd)-Total | | | <0.000001 | | mg/L | | 0.000017 | 16-DEC-22 |
| Calcium (Ca)-Total | | | <0.002 | | mg/L | | 0.2 | 16-DEC-22 |
| Cesium (Cs)-Total | | | <0.0000005 | | mg/L | | 0.00001 | 16-DEC-22 |
| Chromium (Cr)-Total | | | <0.00002 | | mg/L | | 0.001 | 16-DEC-22 |
| Cobalt (Co)-Total | | | <0.000005 | | mg/L | | 0.0005 | 16-DEC-22 |
| Copper (Cu)-Total | | | <0.00002 | | mg/L | | 0.001 | 16-DEC-22 |
| Iron (Fe)-Total | | | <0.0005 | | mg/L | | 0.02 | 16-DEC-22 |
| Lead (Pb)-Total | | | <0.00001 | | mg/L | | 0.00005 | 16-DEC-22 |
| Lithium (Li)-Total | | | 0.0004 | | mg/L | | 0.05 | 16-DEC-22 |
| Magnesium (Mg)-Total | | | 0.0046 | | mg/L | | 0.02 | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-------------------|------------|-----------|-------|-----|---------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5908436 | | | | | | | |
| WG3776340-5 MB | | | | | | | | |
| Manganese (Mn)-Total | | | <0.0002 | | mg/L | | 0.001 | 16-DEC-22 |
| Molybdenum (Mo)-Total | | | <0.000005 | | mg/L | | 0.001 | 16-DEC-22 |
| Nickel (Ni)-Total | | | <0.00002 | | mg/L | | 0.002 | 16-DEC-22 |
| Phosphorus (P)-Total | | | 0.010 | | mg/L | | 0.05 | 16-DEC-22 |
| Potassium (K)-Total | | | <0.01 | | mg/L | | 0.5 | 16-DEC-22 |
| Rubidium (Rb)-Total | | | <0.000002 | | mg/L | | 0.0002 | 16-DEC-22 |
| Selenium (Se)-Total | | | 0.000025 | | mg/L | | 0.00005 | 16-DEC-22 |
| Silicon (Si)-Total | | | 0.028 | | mg/L | | 0.1 | 16-DEC-22 |
| Silver (Ag)-Total | | | <0.000001 | | mg/L | | 0.0001 | 16-DEC-22 |
| Sodium (Na)-Total | | | 0.010 | | mg/L | | 0.1 | 16-DEC-22 |
| Strontium (Sr)-Total | | | 0.000005 | | mg/L | | 0.001 | 16-DEC-22 |
| Sulfur (S)-Total | | | <0.2 | | mg/L | | 0.5 | 16-DEC-22 |
| Tellurium (Te)-Total | | | <0.00002 | | mg/L | | 0.001 | 16-DEC-22 |
| Thallium (Tl)-Total | | | <0.000005 | | mg/L | | 0.0003 | 16-DEC-22 |
| Thorium (Th)-Total | | | <0.00001 | | mg/L | | 0.0001 | 16-DEC-22 |
| Tin (Sn)-Total | | | <0.00001 | | mg/L | | 0.001 | 16-DEC-22 |
| Titanium (Ti)-Total | | | <0.00001 | | mg/L | | 0.002 | 16-DEC-22 |
| Tungsten (W)-Total | | | <0.00001 | | mg/L | | 0.01 | 16-DEC-22 |
| Uranium (U)-Total | | | <0.0000005 | | mg/L | | 0.005 | 16-DEC-22 |
| Vanadium (V)-Total | | | 0.00020 | | mg/L | | 0.001 | 16-DEC-22 |
| Zinc (Zn)-Total | | | 0.0020 | | mg/L | | 0.003 | 16-DEC-22 |
| Zirconium (Zr)-Total | | | <0.000002 | | mg/L | | 0.001 | 16-DEC-22 |
| WG3776340-8 MS | | L2743056-7 | | | | | | |
| Antimony (Sb)-Total | | | 102.6 | | % | | 70-130 | 16-DEC-22 |
| Arsenic (As)-Total | | | 106.6 | | % | | 70-130 | 16-DEC-22 |
| Barium (Ba)-Total | | | N/A | MS-B | % | | - | 16-DEC-22 |
| Beryllium (Be)-Total | | | 105.0 | | % | | 70-130 | 16-DEC-22 |
| Bismuth (Bi)-Total | | | 97.1 | | % | | 70-130 | 16-DEC-22 |
| Boron (B)-Total | | | 106.0 | | % | | 70-130 | 16-DEC-22 |
| Cadmium (Cd)-Total | | | 104.0 | | % | | 70-130 | 16-DEC-22 |
| Calcium (Ca)-Total | | | N/A | MS-B | % | | - | 16-DEC-22 |
| Cesium (Cs)-Total | | | 103.0 | | % | | 70-130 | 16-DEC-22 |
| Chromium (Cr)-Total | | | 106.7 | | % | | 70-130 | 16-DEC-22 |
| Cobalt (Co)-Total | | | 104.6 | | % | | 70-130 | 16-DEC-22 |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-MISA-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5908436 | | | | | | | |
| WG3776340-8 | MS | L2743056-7 | | | | | | |
| Copper (Cu)-Total | | | 101.5 | | % | | 70-130 | 16-DEC-22 |
| Iron (Fe)-Total | | | 103.1 | | % | | 70-130 | 16-DEC-22 |
| Lead (Pb)-Total | | | 99.5 | | % | | 70-130 | 16-DEC-22 |
| Lithium (Li)-Total | | | 101.8 | | % | | 70-130 | 16-DEC-22 |
| Magnesium (Mg)-Total | | | N/A | MS-B | % | | - | 16-DEC-22 |
| Manganese (Mn)-Total | | | N/A | MS-B | % | | - | 16-DEC-22 |
| Molybdenum (Mo)-Total | | | 108.5 | | % | | 70-130 | 16-DEC-22 |
| Nickel (Ni)-Total | | | 102.9 | | % | | 70-130 | 16-DEC-22 |
| Phosphorus (P)-Total | | | 106.3 | | % | | 70-130 | 16-DEC-22 |
| Potassium (K)-Total | | | 107.9 | | % | | 70-130 | 16-DEC-22 |
| Rubidium (Rb)-Total | | | 105.5 | | % | | 70-130 | 16-DEC-22 |
| Selenium (Se)-Total | | | 108.6 | | % | | 70-130 | 16-DEC-22 |
| Silicon (Si)-Total | | | 108.8 | | % | | 70-130 | 16-DEC-22 |
| Silver (Ag)-Total | | | 98.9 | | % | | 70-130 | 16-DEC-22 |
| Sodium (Na)-Total | | | N/A | MS-B | % | | - | 16-DEC-22 |
| Strontium (Sr)-Total | | | N/A | MS-B | % | | - | 16-DEC-22 |
| Sulfur (S)-Total | | | 103.1 | | % | | 70-130 | 16-DEC-22 |
| Tellurium (Te)-Total | | | 101.1 | | % | | 70-130 | 16-DEC-22 |
| Thallium (Tl)-Total | | | 100.7 | | % | | 70-130 | 16-DEC-22 |
| Thorium (Th)-Total | | | 100.4 | | % | | 70-130 | 16-DEC-22 |
| Tin (Sn)-Total | | | 100.5 | | % | | 70-130 | 16-DEC-22 |
| Titanium (Ti)-Total | | | 109.7 | | % | | 70-130 | 16-DEC-22 |
| Tungsten (W)-Total | | | 103.6 | | % | | 70-130 | 16-DEC-22 |
| Uranium (U)-Total | | | 101.4 | | % | | 70-130 | 16-DEC-22 |
| Vanadium (V)-Total | | | 107.8 | | % | | 70-130 | 16-DEC-22 |
| Zinc (Zn)-Total | | | 98.8 | | % | | 70-130 | 16-DEC-22 |
| Zirconium (Zr)-Total | | | 109.7 | | % | | 70-130 | 16-DEC-22 |
| NH3-MISA-F-TB | | | | | | | | |
| | Effluent | | | | | | | |
| Batch | R5908216 | | | | | | | |
| WG3776167-3 | DUP | L2743056-9 | | | | | | |
| Ammonia, Total (as N) | | 0.062 | 0.060 | | mg/L | 1.0 | 20 | 16-DEC-22 |
| WG3776165-2 | LCS | | 101.8 | | % | | 85-115 | 16-DEC-22 |
| Ammonia, Total (as N) | | | | | | | | |
| WG3776167-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L2743056

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| NH3-MISA-F-TB | | Effluent | | | | | | |
| Batch | R5908216 | | | | | | | |
| WG3776167-2 | LCS | | | | | | | |
| Ammonia, Total (as N) | | | 100.6 | | % | | 85-115 | 16-DEC-22 |
| WG3776165-1 | MB | | | | | | | |
| Ammonia, Total (as N) | | | 0.004 | | mg/L | | 0.005 | 16-DEC-22 |
| WG3776167-1 | MB | | | | | | | |
| Ammonia, Total (as N) | | | 0.004 | | mg/L | | 0.005 | 16-DEC-22 |
| WG3776165-4 | MS | L2742963-1 | | | | | | |
| Ammonia, Total (as N) | | | N/A | MS-B | % | | - | 16-DEC-22 |
| WG3776167-4 | MS | L2743056-10 | | | | | | |
| Ammonia, Total (as N) | | | 104.1 | | % | | 75-125 | 16-DEC-22 |
| NO2-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5907116 | | | | | | | |
| WG3776116-3 | DUP | L2743056-1 | | | | | | |
| Nitrite (as N) | | <0.001 | <0.001 | RPD-NA | mg/L | N/A | 20 | 14-DEC-22 |
| WG3776116-2 | LCS | | | | | | | |
| Nitrite (as N) | | | 99.2 | | % | | 90-110 | 14-DEC-22 |
| WG3776116-1 | MB | | | | | | | |
| Nitrite (as N) | | | <0.001 | | mg/L | | 0.01 | 14-DEC-22 |
| WG3776116-4 | MS | L2743056-2 | | | | | | |
| Nitrite (as N) | | | 98.1 | | % | | 75-125 | 14-DEC-22 |
| NO3-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5907116 | | | | | | | |
| WG3776116-3 | DUP | L2743056-1 | | | | | | |
| Nitrate (as N) | | 0.068 | 0.062 | | mg/L | 8.4 | 20 | 14-DEC-22 |
| WG3776116-2 | LCS | | | | | | | |
| Nitrate (as N) | | | 100.2 | | % | | 90-110 | 14-DEC-22 |
| WG3776116-1 | MB | | | | | | | |
| Nitrate (as N) | | | <0.002 | | mg/L | | 0.02 | 14-DEC-22 |
| WG3776116-4 | MS | L2743056-2 | | | | | | |
| Nitrate (as N) | | | 97.6 | | % | | 75-125 | 14-DEC-22 |
| OGG-TOT-WT | | Effluent | | | | | | |
| Batch | R5911738 | | | | | | | |
| WG3776685-2 | LCS | | | | | | | |
| Oil and Grease, Total | | | 90.5 | | % | | 50-150 | 20-DEC-22 |
| WG3776685-1 | MB | | | | | | | |
| Oil and Grease, Total | | | <0.2 | | mg/L | | 1 | 20-DEC-22 |
| PH-MISA-TB | | Effluent | | | | | | |



Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

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Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0

Contact: Garnet Cornell

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|---------|-----------|
| PH-MISA-TB | | Effluent | | | | | | |
| Batch | R5907083 | | | | | | | |
| WG3776111-3 | DUP | L2743056-12 | | | | | | |
| pH | | 7.37 | 7.45 | J | pH | 0.08 | 0.2 | 14-DEC-22 |
| WG3776111-2 | LCS | | | | | | | |
| pH | | | 6.93 | | pH | | 6.9-7.1 | 14-DEC-22 |
| SO4-MISA-IC-TB | | Effluent | | | | | | |
| Batch | R5907116 | | | | | | | |
| WG3776116-3 | DUP | L2743056-1 | | | | | | |
| Sulfate (SO4) | | 8.25 | 7.95 | | mg/L | 3.6 | 20 | 14-DEC-22 |
| WG3776116-2 | LCS | | | | | | | |
| Sulfate (SO4) | | | 101.6 | | % | | 90-110 | 14-DEC-22 |
| WG3776116-1 | MB | | | | | | | |
| Sulfate (SO4) | | | <0.05 | | mg/L | | 0.3 | 14-DEC-22 |
| WG3776116-4 | MS | L2743056-2 | | | | | | |
| Sulfate (SO4) | | | 100.0 | | % | | 75-125 | 14-DEC-22 |
| TDS-MISA-TB | | Effluent | | | | | | |
| Batch | R5907878 | | | | | | | |
| WG3776203-3 | DUP | L2743053-1 | | | | | | |
| Total Dissolved Solids | | 1450 | 1460 | | mg/L | 0.8 | 20 | 15-DEC-22 |
| WG3776203-2 | LCS | | | | | | | |
| Total Dissolved Solids | | | 100.7 | | % | | 85-115 | 15-DEC-22 |
| WG3776203-1 | MB | | | | | | | |
| Total Dissolved Solids | | | 6 | | mg/L | | 10 | 15-DEC-22 |
| TSS-MISA-TB | | Effluent | | | | | | |
| Batch | R5907877 | | | | | | | |
| WG3776204-3 | DUP | L2743053-1 | | | | | | |
| Total Suspended Solids | | 1.5 | 1.5 | RPD-NA | mg/L | N/A | 20 | 15-DEC-22 |
| WG3776204-2 | LCS | | | | | | | |
| Total Suspended Solids | | | 114.2 | | % | | 85-115 | 15-DEC-22 |
| WG3776204-1 | MB | | | | | | | |
| Total Suspended Solids | | | <0.5 | | mg/L | | 3 | 15-DEC-22 |

Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

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Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| <DL | Recorded value = measured amount <LMDL (non-zero) |
| <T | A Measurable Trace Amount: Interpret With Caution |
| <W | No Measurable Response (Zero): < Reported Value |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MES | Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME). |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

Client: New Gold Inc. Rainy River Project
 24 Marr Rd
 Barwick ON P0W 1A0
 Contact: Garnet Cornell

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|--|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Colour, True | | | | | | | |
| | 1 | 10-DEC-22 11:30 | 14-DEC-22 12:00 | 3 | 4 | days | EHTL |
| | 2 | 10-DEC-22 12:00 | 14-DEC-22 12:00 | 3 | 4 | days | EHTL |
| | 3 | 10-DEC-22 12:00 | 14-DEC-22 12:00 | 3 | 4 | days | EHTL |
| | 4 | 10-DEC-22 12:10 | 14-DEC-22 12:00 | 3 | 4 | days | EHTL |
| | 5 | 10-DEC-22 15:30 | 14-DEC-22 12:00 | 3 | 4 | days | EHTL |
| Turbidity | | | | | | | |
| | 1 | 10-DEC-22 11:30 | 14-DEC-22 14:30 | 3 | 4 | days | EHTL |
| | 2 | 10-DEC-22 12:00 | 14-DEC-22 14:30 | 3 | 4 | days | EHTL |
| | 3 | 10-DEC-22 12:00 | 14-DEC-22 14:30 | 3 | 4 | days | EHTL |
| | 4 | 10-DEC-22 12:10 | 14-DEC-22 14:30 | 3 | 4 | days | EHTL |
| | 5 | 10-DEC-22 15:30 | 14-DEC-22 14:30 | 3 | 4 | days | EHTL |
| Anions and Nutrients | | | | | | | |
| Filtr./Pres. for Carbons Subcontract | | | | | | | |
| | 1 | 10-DEC-22 11:30 | 15-DEC-22 15:00 | 3 | 5 | days | EHTL |
| | 2 | 10-DEC-22 12:00 | 15-DEC-22 15:00 | 3 | 5 | days | EHTL |
| | 3 | 10-DEC-22 12:00 | 15-DEC-22 15:00 | 3 | 5 | days | EHTL |
| | 4 | 10-DEC-22 12:10 | 15-DEC-22 15:00 | 3 | 5 | days | EHTL |
| | 5 | 10-DEC-22 15:30 | 15-DEC-22 15:00 | 3 | 5 | days | EHTL |
| | 6 | 11-DEC-22 11:10 | 15-DEC-22 15:00 | 3 | 4 | days | EHT |
| | 7 | 11-DEC-22 12:05 | 15-DEC-22 15:00 | 3 | 4 | days | EHT |
| | 8 | 11-DEC-22 12:35 | 15-DEC-22 15:00 | 3 | 4 | days | EHT |
| | 9 | 11-DEC-22 12:55 | 15-DEC-22 15:00 | 3 | 4 | days | EHT |
| | 10 | 11-DEC-22 14:25 | 15-DEC-22 15:00 | 3 | 4 | days | EHT |
| | 11 | 11-DEC-22 14:45 | 15-DEC-22 15:00 | 3 | 4 | days | EHT |
| | 12 | 11-DEC-22 14:55 | 15-DEC-22 15:00 | 3 | 4 | days | EHT |
| Cyanides | | | | | | | |
| Free Cyanide by Continuous Flow Analyzer | | | | | | | |
| | 1 | 10-DEC-22 11:30 | 20-DEC-22 00:00 | 7 | 10 | days | EHT |
| | 2 | 10-DEC-22 12:00 | 20-DEC-22 00:00 | 7 | 10 | days | EHT |
| | 3 | 10-DEC-22 12:00 | 20-DEC-22 00:00 | 7 | 10 | days | EHT |
| | 4 | 10-DEC-22 12:10 | 20-DEC-22 00:00 | 7 | 9 | days | EHT |
| | 5 | 10-DEC-22 15:30 | 20-DEC-22 00:00 | 7 | 9 | days | EHT |
| | 6 | 11-DEC-22 11:10 | 20-DEC-22 00:00 | 7 | 9 | days | EHT |
| | 7 | 11-DEC-22 12:05 | 20-DEC-22 00:00 | 7 | 9 | days | EHT |
| | 8 | 11-DEC-22 12:35 | 20-DEC-22 00:00 | 7 | 8 | days | EHT |
| | 9 | 11-DEC-22 12:55 | 20-DEC-22 00:00 | 7 | 8 | days | EHT |
| | 10 | 11-DEC-22 14:25 | 20-DEC-22 00:00 | 7 | 8 | days | EHT |
| | 11 | 11-DEC-22 14:45 | 20-DEC-22 00:00 | 7 | 8 | days | EHT |
| | 12 | 11-DEC-22 14:55 | 20-DEC-22 00:00 | 7 | 8 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon for MISA | | | | | | | |
| | 1 | 10-DEC-22 11:30 | 19-DEC-22 00:00 | 3 | 9 | days | EHTL |
| | 2 | 10-DEC-22 12:00 | 19-DEC-22 00:00 | 3 | 9 | days | EHTL |
| | 3 | 10-DEC-22 12:00 | 19-DEC-22 00:00 | 3 | 9 | days | EHTL |
| | 4 | 10-DEC-22 12:10 | 19-DEC-22 00:00 | 3 | 8 | days | EHTL |
| | 5 | 10-DEC-22 15:30 | 19-DEC-22 00:00 | 3 | 8 | days | EHTL |
| | 6 | 11-DEC-22 11:10 | 19-DEC-22 00:00 | 3 | 8 | days | EHT |
| | 7 | 11-DEC-22 12:05 | 19-DEC-22 00:00 | 3 | 8 | days | EHT |
| | 8 | 11-DEC-22 12:35 | 19-DEC-22 00:00 | 3 | 7 | days | EHT |
| | 9 | 11-DEC-22 12:55 | 19-DEC-22 00:00 | 3 | 7 | days | EHT |
| | 10 | 11-DEC-22 14:25 | 19-DEC-22 00:00 | 3 | | | EHT |

Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

Client: New Gold Inc. Rainy River Project
24 Marr Rd
Barwick ON P0W 1A0
Contact: Garnet Cornell

Page 25 of 25

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Organic / Inorganic Carbon | | | | | | | |
| Dissolved Organic Carbon for MISA | | | | | | | |
| | 11 | 11-DEC-22 14:45 | 19-DEC-22 00:00 | 3 | 7 | days | EHT |
| | 12 | 11-DEC-22 14:55 | 19-DEC-22 00:00 | 3 | 7 | days | EHT |

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2743056 were received on 13-DEC-22 09:20.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

SRC Group # 2022-15077

Jan 06, 2023

ALS
Thunder Bay Analytical
1081 Barton Street
Thunder Bay, ON P7B 5N3
Attn: Christine Paradis

Date Samples Received: Dec-16-2022

Client P.O.: L2743056

All results have been reviewed and approved by a Qualified Person in accordance with the Saskatchewan Environmental Code, Corrective Action Plan Chapter, for the purposes of certifying a laboratory analysis

Results from Lab Section 4 approved by Smith-Windsor, Jenna

- * Test methods and data are validated by the laboratory's Quality Assurance Program.
- * Routine methods follow recognized procedures from sources such as
 - * Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF
 - * Environment Canada
 - * US EPA
 - * CANMET
- * The results reported relate only to the test samples as provided by the client. Results apply to the sample as received, unless otherwise indicated.
- * Data marked as "by Client" has been provided by the client and may affect the validity of results.
- * Samples will be kept for 30 days after the final report is sent. Please contact the lab if you have any special requirements.
- * Additional information is available upon request.
- * Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

This is a final report.

SRC Group # 2022-15077

Jan 06, 2023

ALS, Thunder Bay Analytical
 1081 Barton Street
 Thunder Bay, ON P7B 5N3
 Attn: Christine Paradis

Sample #: **2022050141** Client PO #: **L2743056**
 Date Sampled: **Dec 10, 2022** Date Received: **Dec 16, 2022**
 Sample Matrix: **WATER**
 Description: **12/10/2022 SW20-SW_20221210 L2743056-5**

| Analyte | Units | Result | DL |
|----------------------|-------|--------|-------|
| Lab Section 4 | | | |
| Radium-226 | Bq/L | <0.005 | 0.005 |

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 15.3 °C upon receipt.

SRC Group # 2022-15077

Jan 06, 2023

ALS, Thunder Bay Analytical

Sample #: **2022050142** Client PO #: **L2743056**
 Date Sampled: **Dec 11, 2022** Date Received: **Dec 16, 2022**
 Sample Matrix: **WATER**
 Description: **12/11/2022 SW22A_SW_20221210 L2743056-7**

| Analyte | Units | Result | DL |
|----------------------|-------|--------|-------|
| Lab Section 4 | | | |
| Radium-226 | Bq/L | <0.005 | 0.005 |

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

The temperature of the cooler was 15.3 °C upon receipt.

SRC Group # 2022-15077

Jan 06, 2023

ALS, Thunder Bay Analytical

Analyte Methods

| Name | Units | Method |
|-------------|--------------|---------------|
| Radium-226 | Bq/L | Rad-105 |



Project Name: Rainy River
 Location: Chapple
 Project Number:
 Project Manager:
 PO Number:

Containers

Filtered

Preservatives

Project:
 Turn Around Time (days): 10 Business Days
 Shipping Company:
 Shipping Date: 12/12/2022 4:48:00 PM
 COC Number: ALS-449077002

| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | Number of Containers | Comments |
|------------------|-------------------------------|---------------------|-----------------|------------------|--------|------------|---------------|--|--|--|--|--|--|----------------------|----------|
| SW15_SW_20221210 | 7.23 | 7.5 | 1.74 | 12/10/2022 11:30 | SW | X | | | | | | | | 11 | 12 |
| FB_SW_20221210 | | | | 12/10/2022 12:00 | SW | X | | | | | | | | 11 | 12 |
| SW06_SW_20221210 | | | | 12/10/2022 12:00 | SW | X | | | | | | | | 11 | 12 |
| SW17_SW_20221210 | 11.76 | 7.08 | 0.19 | 12/10/2022 12:10 | SW | X | | | | | | | | 11 | ✓ |
| SW20_SW_20221210 | 2.93 | 6.58 | 2.61 | 12/10/2022 15:30 | SW | X | | | | | | | | 12 | ✓ |
| SW20_SW_20221210 | 2.93 | 6.58 | 2.61 | 12/10/2022 15:30 | SW | | X | | | | | | | 12 | 1 |

| | | | | |
|---|---|---|------|---|
| Signature Shipped by Received by <i>LV 12/13/22</i> | Date/Time 12/12/2022 4:48:00 PM <i>9:20</i> | Shipping Details Method of Shipment: Courier On Ice: yes / no <i>Ice Pack</i> Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | ATTN | Special Instructions: Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| | | (Blank space for additional notes or signatures) | | |

Handwritten notes at the bottom of the page, including '12/13/22' and other illegible markings.



CHAIN OF CUSTODY RECORD - ALS-449077002

| Project Name: Rainy River | | | | | | Containers | | | | | | | | | | | | Number of Containers | Comments | |
|---|-------------------------------|---------------------|-----------------|------------------|--------|---------------|---------------|---------------|--|--|--|--|--|--|--|--|--|----------------------|----------|--|
| Location: Chapple | | | | | | Filtered | SW Kit | Ra-226 Bottle | | | | | | | | | | | | |
| Project Number: | | | | | | | N | N | | | | | | | | | | | | |
| Project Manager: | | | | | | Preservatives | | | | | | | | | | | | | | |
| PO Number: | | | | | | | | | | | | | | | | | | | | |
| Project: | | | | | | | | | | | | | | | | | | | | |
| Turn Around Time (days): 10 Business Days | | | | | | | | | | | | | | | | | | | | |
| Shipping Company: | | | | | | | | | | | | | | | | | | | | |
| Shipping Date: 12/12/2022 4:48:00 PM | | | | | | | | | | | | | | | | | | | | |
| COC Number: ALS-449077002 | | | | | | | | | | | | | | | | | | | | |
| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MMER-BE | | | | | | | | | | | | | |
| SW28A_SW_20221210 | 12.17 | 9.73 | 0.82 | 12/11/2022 11:10 | SW | X | | | | | | | | | | | | 11 | 12 | |
| SW22A_SW_20221210 | 3.81 | 9.31 | 0.81 | 12/11/2022 12:05 | SW | X | | | | | | | | | | | | 12 | ✓ | |
| SW22A_SW_20221210 | 3.81 | 9.31 | 0.81 | 12/11/2022 12:05 | SW | | X | | | | | | | | | | | 12 | 1 | |
| SW25_SW_20221210 | 11.38 | 9.21 | 0.06 | 12/11/2022 12:35 | SW | X | | | | | | | | | | | | 11 | 12 | |
| SW02_SW_20221210 | 6.47 | 8.69 | 0.27 | 12/11/2022 12:55 | SW | X | | | | | | | | | | | | 11 | 12 | |
| SW26_SW_20221210 | 11.16 | 8.39 | 1.13 | 12/11/2022 14:25 | SW | X | | | | | | | | | | | | 11 | 12 | |

| | | | | | | | | | | | | |
|-------------|--|-----------------------|--|----------------------------------|--|--|------|--|--|--|--|--|
| Signature | | Date/Time | | Shipping Details | | | ATTN | | | Special Instructions: | | |
| Shipped by | | 12/12/2022 4:48:00 PM | | Method of Shipment: Courier | | | | | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com | | |
| Received by | | LV 12/13/22 9:20 | | On Ice: yes / no <i>Ice Pack</i> | | | | | | | | |
| | | | | Shipped: Air/Ground | | | | | | | | |
| | | | | Lab Name: ALS Thunder Bay | | | | | | | | |
| | | | | Lab Phone: | | | | | | | | |



| | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------|---------------------|-----------------|------------------|--------|---|----------------|--------|---------------|--|--|--|--|--|--|--|--|----------------------|----------|--|--|--|
| Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project: | | | | | | Containers Filtered Preservatives | | SW Kit | Ra-226 Bottle | | | | | | | | | | | | | |
| Turn Around Time (days): 10 Business Days Shipping Company: Shipping Date: 12/12/2022 4:48:00 PM COC Number: ALS-449077002 | | | | | | | | | | | | | | | | | | | | | | |
| Sample Code | Field Dissolved Oxygen (mg/L) | Field pH (pH Units) | Field Temp (°C) | Date and Time | Matrix | NG-SW-P-TB | RA226-MIMER-BE | | | | | | | | | | | | | | | |
| SW27_SW_20221210 | 7.19 | 9.01 | 1.67 | 12/11/2022 14:45 | SW | X | | | | | | | | | | | | | | | | |
| SW21A_SW_20221210 | 0 | 8.97 | -0.14 | 12/11/2022 14:55 | SW | X | | | | | | | | | | | | | | | | |
| TB_SW_20221210 | | | | 12/12/2022 12:00 | SW | X | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | Number of Containers | Comments | | | |

Drinking Water (DW) Samples (client use)

Sample Receipt Details (ALS use only)

Cooling Method: None Ice Ice Packs Frozen Cooling Initiated

| | | | | |
|-----------------------|-----------------------|---|------|--|
| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
| Shipped by | 12/12/2022 4:48:00 PM | Method of Shipment: Courier On Ice: yes / no <i>Ice Pack</i> Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by <i>LV</i> | <i>12/13/22 9:20</i> | | | |

Mantoulia



| |
|---|
| Are samples taken from a Regulated DW System? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Are samples for human consumption / use? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Samples from a Regulated DW System require an Authorized DW COC form |

| | | | | | | | |
|---|--|--|--|------------------------------|--|--|--|
| Submission Comments Identified on Sample Receipt Notification: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | |
| Cooler Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA Sample Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> NA | | | | | | | |
| Initial Cooler Temperatures °C | | | | Final Cooler Temperatures °C | | | |
| | | | | | | | |

| Signature | Date/Time | Shipping Details | ATTN | Special Instructions: |
|-------------|-----------------------|---|------|--|
| Shipped by | 12/12/2022 4:48:00 PM | Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone: | | Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com |
| Received by | | | | |

Intake and Login Verification Form

| Sample Intake | | | |
|--|------------------------|-------------------------|-----------|
| Priority Service Requested | | YES | NO |
| Sample Count | 14 | # of Bottle Types | 12/11/1 |
| Comments on Samples and Bottles: | | | |
| | | | |
| Matrix: | Water | Soil | Air |
| | | Biota | Other |
| Client: | Rainy River - New Gold | | |
| Samples Requiring Preservation or Filtering: | | | |
| | | | |
| SAMPLE RECEIPT INFORMATION | | | |
| Mode of Delivery: | Courier | Drop Off | |
| COURIER | Manitoulin | | |
| Waybill Number | 330 214 3988 | | |
| Shipment Cost | | Cooler Count | 5 |
| Cooling Method | None | Ice | Ice Packs |
| DRINKING WATER SAMPLE CHECK | | | |
| Schedule 24 Bottles Correct upon Receipt | Yes | No | |
| Metals pH Check <2 | Yes | N/A | |
| Layout Staff Initials | LV | Date and Time of Layout | |
| | | 12/13/22 11:30 | |

| Login and Verification | | | | | |
|---|--------|---------|-------|---------|-----|
| Confirmed all as accurate as per COC, Account Notes or PM | | | | | |
| CLIENT | OFFICE | CONTACT | QUOTE | PROJECT | PO |
| Site number matches LSD on COC or Account Notes | | | | | Y/N |
| REPORTS | | | | | |
| Recipients match COC or Account Notes | | Yes | No | | |
| COMMENTS - Visible By Client | | | | | |
| Sample Issues Identified | | Yes | No | | |
| REMARKS - Internal Communication | | | | | |
| Sample Issues/Info Communicated | | Yes | No | | |
| SAMPLE DETAILS | | | | | |
| Sample Name and time entered as per COC | | Yes | No | | |
| Containers selected in order of COC | | Yes | No | | |
| Sales Items from QUOTE ONLY | | Yes | No | | |
| BOTTLE ALLOCATION VERIFICATION | | Yes | No | | |
| GUIDELINE ADDED AS REQUIRED | | Yes | No | | |
| Field Data/Calc Codes removed- not on COC | | Yes | No | | |
| Validation | | | | | |
| No Issues displayed upon Validation/Committal | | | | | Y/N |
| COC and Internal COC created | | | | | Y/N |



| | |
|----------------------|----|
| Login Staff Initials | BN |
|----------------------|----|