

**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

## Table of Contents

	<b>Page</b>
1. Introduction	1
2. Surface Water Quality Monitoring Program Overview	1
2.1. Pinewood River	2
2.2. Area Creeks	3
2.3. Rainy River	3
3. Surface Water Quality Data and Trends	3
3.1. Pinewood River	4
3.2. Area Creeks	6
3.3. Rainy River	8
4. Effluent Discharge Quality and Trends	10
4.1. Sediment Pond 2	11
4.2. EDL1	11
4.3. EDL2	11
5. Effluent Flow Rates and Mixing Ratios	11
5.1. Sediment Pond 2	12
5.2. EDL1	12
5.3. EDL2	12
6. Incidents of Non-Compliance	12
7. Closing	12

## Tables

Table 1:	Updated Receiving Surface Water Sampling Locations	13
Table 2:	Average 2022 Pinewood River Water Quality for Selected Parameters	14
Table 3:	Average 2021 Pinewood River Water Quality for Selected Parameters	15
Table 4:	Average 2020 Pinewood River Water Quality for Selected Parameters	16
Table 5:	Average 2019 Pinewood River Water Quality for Selected Parameters	17
Table 6:	Average 2018 Pinewood River Water Quality for Selected Parameters	18
Table 7:	Average 2017 Pinewood River Water Quality for Selected Parameters	19
Table 8:	Average 2016 Pinewood River Water Quality for Selected Parameters	20
Table 9:	2022 ECA Trigger Value Compliance for SW22A	21
Table 10:	2022 ECA Trigger Value Compliance for SW24	21
Table 11:	2021 ECA Trigger Value Compliance for SW22A	22
Table 12:	2021 ECA Trigger Value Compliance for SW24	22
Table 13:	2020 ECA Trigger Value Compliance for SW22A	23
Table 14:	2020 ECA Trigger Value Compliance for SW24	23
Table 15:	2019 ECA Trigger Value Compliance for SW22A	24
Table 16:	2019 ECA Trigger Value Compliance for SW24	24
Table 17:	2018 ECA Trigger Value Compliance for SW22A	25
Table 18:	2018 ECA Trigger Value Compliance for SW24	25

Table 19:	2017 ECA Trigger Value Compliance for SW22A	26
Table 20:	2016 ECA Trigger Value Compliance for SW22A	26
Table 21:	Average 2022 Area Creek & Rainy River Water Quality for Selected Parameters	27
Table 22:	Average 2021 Area Creek & Rainy River Water Quality for Selected Parameters	28
Table 23:	Average 2020 Area Creek & Rainy River Water Quality for Selected Parameters	29
Table 24:	Average 2019 Area Creek & Rainy River Water Quality for Selected Parameters	30
Table 25:	Average 2018 Area Creek & Rainy River Water Quality for Selected Parameters	31
Table 26:	Average 2017 Area Creek & Rainy River Water Quality for Selected Parameters	32
Table 27:	Average 2016 Area Creek & Rainy River Water Quality for Selected Parameters	33

### Figures

Figure 1:	RRM Site Plan with Surface Water Sampling Locations	34
Figure 2a:	RRM Field pH Levels in Pinewood River 2015-2022	35
Figure 2b:	RRM Field pH Levels in Pinewood River 2022	36
Figure 3a:	RRM Total Suspended Solids in Pinewood River 2015-2022	37
Figure 3b:	RRM Total Suspended Solids in Pinewood River 2022	38
Figure 4a:	RRM Total Arsenic in Pinewood River 2015-2022	39
Figure 4b:	RRM Total Arsenic in Pinewood River 2022	40
Figure 5a:	RRM Total Copper in Pinewood River 2015-2022	41
Figure 5b:	RRM Total Copper in Pinewood River 2022	42
Figure 6a:	RRM Total Lead in Pinewood River 2015-2022	43
Figure 6b:	RRM Total Lead in Pinewood River 2022	44
Figure 7a:	RRM Total Nickel in Pinewood River 2015-2022	45
Figure 7b:	RRM Total Nickel in Pinewood River 2022	46
Figure 8a:	RRM Total Phosphorus in Pinewood River 2017-2022	47
Figure 8b:	RRM Total Phosphorus in Pinewood River 2022	48
Figure 9a:	RRM Total Zinc in Pinewood River 2015-2022	49
Figure 9b:	RRM Total Zinc in Pinewood River 2022	50
Figure 10a:	RRM Total Mercury in Pinewood River 2015-2022	51
Figure 10b:	RRM Total Mercury in Pinewood River 2022	52
Figure 11a:	RRM Unionized Ammonia in Pinewood River 2015-2022	53
Figure 11b:	RRM Unionized Ammonia in Pinewood River 2022	54
Figure 12a:	RRM Free Cyanide in Pinewood River 2018-2022	55
Figure 12b:	RRM Free Cyanide in Pinewood River 2022	56
Figure 13a:	RRM Field pH Levels in Area Creeks 2015-2022	57
Figure 13b:	RRM Field pH Levels in Area Creeks 2022	58
Figure 14a:	RRM Total Suspended Solids in Area Creeks 2015-2022	59
Figure 14b:	RRM Total Suspended Solids in Area Creeks 2022	60
Figure 15a:	RRM Total Arsenic in Area Creeks 2015-2022	61
Figure 15b:	RRM Total Arsenic in Area Creeks 2022	62
Figure 16a:	RRM Total Copper in Area Creeks 2015-2022	63
Figure 16b:	RRM Total Copper in Area Creeks 2022	64
Figure 17a:	RRM Total Lead in Area Creeks 2015-2022	65

Figure 17b:	RRM Total Lead in Area Creeks 2022	66
Figure 18a:	RRM Total Nickel in Area Creeks 2015-2022	67
Figure 18b:	RRM Total Nickel in Area Creeks 2022	68
Figure 19a:	RRM Total Phosphorus in Area Creeks 2017-2022	69
Figure 19b:	RRM Total Phosphorus in Area Creeks 2022	70
Figure 20a:	RRM Total Zinc in Area Creeks 2015-2022	71
Figure 20b:	RRM Total Zinc in Area Creeks 2022	72
Figure 21a:	RRM Total Mercury in Area Creeks 2015-2022	73
Figure 21b:	RRM Total Mercury in Area Creeks 2022	74
Figure 22a:	RRM Unionized Ammonia in Area Creeks 2015-2022	75
Figure 22b:	RRM Unionized Ammonia in Area Creeks 2022	76
Figure 23a:	RRM Free Cyanide in Area Creeks 2018-2022	77
Figure 23b:	RRM Free Cyanide in Area Creeks 2022	78
Figure 24a:	RRM Field pH Levels in Rainy River 2015-2022	79
Figure 24b:	RRM Field pH Levels in Rainy River 2022	80
Figure 25a:	RRM Total Suspended Solids in Rainy River 2015-2022	81
Figure 25b:	RRM Total Suspended Solids in Rainy River 2022	82
Figure 26a:	RRM Total Arsenic in Rainy River 2015-2022	83
Figure 26b:	RRM Total Arsenic in Rainy River 2022	84
Figure 27a:	RRM Total Copper in Rainy River 2015-2022	85
Figure 27b:	RRM Total Copper in Rainy River 2022	86
Figure 28a:	RRM Total Lead in Rainy River 2015-2022	87
Figure 28b:	RRM Total Lead in Rainy River 2022	88
Figure 29a:	RRM Total Nickel in Rainy River 2015-2022	89
Figure 29b:	RRM Total Nickel in Rainy River 2022	90
Figure 30a:	RRM Total Phosphorus in Rainy River 2017-2022	91
Figure 30b:	RRM Total Phosphorus in Rainy River 2022	92
Figure 31a:	RRM Total Zinc in Rainy River 2015-2022	93
Figure 31b:	RRM Total Zinc in Rainy River 2015-2022	94
Figure 32a:	RRM Total Mercury in Rainy River 2015-2022	95
Figure 32b:	RRM Total Mercury in Rainy River 2022	96
Figure 33a:	RRM Unionized Ammonia in Rainy River 2015-2022	97
Figure 33b:	RRM Unionized Ammonia in Rainy River 2022	98
Figure 34a:	RRM Free Cyanide in Rainy River 2018-2022	99
Figure 34b:	RRM Free Cyanide in Rainy River 2022	100

## Appendices

Appendix A:	Certification by Owner
Appendix B:	Baseline Receiver Water Quality Tables and Graphs
Appendix C:	Monthly ECA Works Performance Reports 2021
Appendix D:	Certificates of Analysis

## 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 CaCO<sub>3</sub>) were recorded at SW03 and SW15 in July and December respectively however the hardness was above 140 mg/L CaCO<sub>3</sub>.

#### 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 CaCO<sub>3</sub>.

### 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 m<sup>3</sup>/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 4<sup>th</sup>, 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 m<sup>3</sup> on July 4, 2022. Email was sent to River Flow distribution list to cease discharge for the next 24 hours from all points as overage is carried into the next 24 hours discharge calculation.

On July 29<sup>th</sup>, 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 m<sup>3</sup> 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 m<sup>3</sup> 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 m<sup>3</sup> of water was discharged to the Pinewood River. Because of this extra 4,353 m<sup>3</sup> 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* <sup>1</sup>
Cyanide, Free (mg/L)	0.0012	0.0008	0.0011	0.0009	0.0010	0.0010	0.0010	0.0008	0.005 <sup>1</sup>
Cyanide, Total (mg/L)	0.0008	0.0010	0.0010	0.0011	0.0009	0.0012	0.0010	0.0009	0.005* <sup>1</sup>
Field pH (mg/L)	6.74	6.97	7.33	7.31	7.06	7.00	6.93	7.03	6.5-8.5 <sup>^</sup>
Total Suspended Solids (mg/L)	6.70	6.3	4.6	4.3	5.8	11.3	8.0	8.7	30 <sup>1</sup>
Aluminium, Total (mg/L)	<b>0.209</b>	<b>0.226</b>	<b>0.117</b>	<b>0.172</b>	<b>0.232</b>	<b>0.4</b>	<b>0.3</b>	<b>0.4</b>	0.075 <sup>^</sup>
Arsenic, Total (mg/L)	0.0011	0.0012	0.0014	0.0013	0.0015	0.0017	0.0015	0.0014	0.01 <sup>1</sup>
Cadmium, Total (mg/L)	0.000010	0.000010	0.000010	0.000011	0.000012	0.00001	0.00001	0.00002	0.0001-0.0005 <sup>^</sup>
Chromium, Total (mg/L)	0.0008	0.0007	0.0005	0.0006	0.0007	0.0009	0.0008	0.0010	0.001* <sup>^</sup>
Cobalt, Total (mg/L)	0.0003	0.0003	0.0006	0.0005	0.0004	0.0006	0.0006	0.0005	0.0009 <sup>^</sup>
Copper, Total (mg/L)	0.00081	0.00104	0.00062	0.00091	0.00163	0.0015	0.0015	0.0017	0.005 <sup>^</sup> ,0.008 <sup>1</sup>
Iron, Total (mg/L)	<b>0.635</b>	<b>0.672</b>	<b>0.801</b>	<b>0.747</b>	<b>0.682</b>	<b>1.1087</b>	<b>1.0458</b>	<b>0.9835</b>	0.3* <sup>^</sup>
Lead, Total (mg/L)	0.000178	0.000207	0.000098	0.000131	0.000443	0.0003	0.0003	0.0007	0.008 <sup>1</sup>
Mercury, Total (mg/L)	0.000013	0.000013	0.000012	0.000012	0.000011	0.00001	0.00001	0.00001	0.0002 <sup>^</sup>
Nickel, Total (mg/L)	0.00148	0.00170	0.00153	0.00160	0.00209	0.0023	0.0022	0.0020	0.025 <sup>1</sup>
Phosphorus, Total (mg/L)	0.036	0.046	0.077	0.070	0.066	0.072	0.063	0.055	0.1 <sup>1</sup>
Zinc, Total (mg/L)	0.00418	0.00970	0.00246	0.00501	0.00412	0.0036	0.0047	0.0043	0.02 <sup>^</sup>

\* CEQG

<sup>^</sup> PWQO

<sup>1</sup> 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* <sup>^1</sup>
Cyanide, Free (mg/L)	0.0009	0.0008	0.0012	0.0006	0.0009	0.0008	0.0008	0.0008	0.005 <sup>1</sup>
Cyanide, Total (mg/L)	0.0011	0.0011	0.0011	0.0010	0.0011	0.0011	0.0012	0.0011	0.005* <sup>^1</sup>
Field pH (mg/L)	7.14	7.47	7.13	7.10	7.40	7.45	7.35	7.61	6.5-8.5 <sup>^1</sup>
Total Suspended Solids (mg/L)	5.40	5.9	9.4	7.8	8.8	9.8	8.3	11.2	30 <sup>1</sup>
Aluminium, Total (mg/L)	<b>0.150</b>	<b>0.200</b>	<b>0.123</b>	<b>0.148</b>	<b>0.286</b>	<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	0.075 <sup>^1</sup>
Arsenic, Total (mg/L)	0.0012	0.0014	0.0018	0.0016	0.0017	0.0021	0.0022	0.0200	0.01 <sup>1</sup>
Cadmium, Total (mg/L)	0.000010	0.000011	0.000007	0.000009	0.000014	0.00002	0.00002	0.00002	0.0001-0.0005 <sup>^1</sup>
Chromium, Total (mg/L)	0.0004	0.0005	0.0004	0.0004	0.0006	0.0009	0.0008	0.0009	0.001* <sup>^1</sup>
Cobalt, Total (mg/L)	0.0005	0.0005	0.0007	0.0009	0.0007	0.0008	0.0008	0.0004	0.0009 <sup>^1</sup>
Copper, Total (mg/L)	0.00085	0.00097	0.00097	0.00100	0.00242	0.0017	0.0018	0.0020	0.005 <sup>^1</sup> ,0.008 <sup>1</sup>
Iron, Total (mg/L)	<b>0.974</b>	<b>0.738</b>	<b>0.987</b>	<b>1.354</b>	<b>0.811</b>	<b>1.1023</b>	<b>1.0297</b>	<b>0.6844</b>	0.3* <sup>^1</sup>
Lead, Total (mg/L)	0.000131	0.000165	0.000099	0.000129	0.000220	0.0004	0.0004	0.0007	0.008 <sup>1</sup>
Mercury, Total (mg/L)	0.000026	0.000025	0.000028	0.000022	0.000018	0.00002	0.00002	0.00002	0.0002 <sup>^1</sup>
Nickel, Total (mg/L)	0.00146	0.00163	0.00140	0.00166	0.00236	0.0024	0.0024	0.0018	0.025 <sup>1</sup>
Phosphorus, Total (mg/L)	0.048	0.049	0.139	0.104	0.069	0.063	0.062	0.086	0.1 <sup>1</sup>
Zinc, Total (mg/L)	0.00347	0.00260	0.00304	0.00328	0.00470	0.0033	0.0045	0.0052	0.02 <sup>^1</sup>

\* CEQG

<sup>^</sup> PWQO

<sup>1</sup> 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* <sup>^1</sup>
Cyanide, Free (mg/L)	0.0009	0.0008	0.0007	0.0007	0.0007	0.0010	0.0007	0.0008	0.005 <sup>1</sup>
Cyanide, Total (mg/L)	0.0006	0.0008	0.0006	0.0006	0.0008	0.0011	0.0010	0.0007	0.005* <sup>^</sup>
Field pH (mg/L)	7.21	7.29	7.31	7.37	7.26	7.26	7.26	7.32	6.5-8.5 <sup>^</sup>
Total Suspended Solids (mg/L)	4.5	5.0	7.4	6.4	11.6	13.5	10.1	12.0	30 <sup>1</sup>
Aluminium, Total (mg/L)	<b>0.185</b>	<b>0.194</b>	<b>0.233</b>	<b>0.202</b>	<b>0.401</b>	<b>0.568</b>	<b>0.406</b>	<b>0.610</b>	0.075 <sup>^</sup>
Arsenic, Total (mg/L)	0.0011	0.0013	0.0014	0.0016	0.0014	0.0019	0.0017	0.0017	0.01 <sup>1</sup>
Cadmium, Total (mg/L)	0.000010	0.000012	0.000011	0.000011	0.000017	0.000020	0.000018	0.000021	0.0001-0.0005 <sup>^</sup>
Chromium, Total (mg/L)	0.0005	0.0005	0.0006	0.0005	0.0009	0.0014	0.0012	0.0013	0.001* <sup>^</sup>
Cobalt, Total (mg/L)	0.0004	0.0004	0.0005	0.0005	0.0005	0.0007	0.0007	0.0006	0.0009 <sup>^</sup>
Copper, Total (mg/L)	0.00082	0.00094	0.00111	0.00147	0.00325	0.00191	0.00292	0.00239	0.005 <sup>^</sup> ,0.008 <sup>1</sup>
Iron, Total (mg/L)	<b>0.767</b>	<b>0.664</b>	<b>0.804</b>	<b>0.617</b>	<b>0.853</b>	<b>1.161</b>	<b>1.017</b>	<b>1.198</b>	0.3* <sup>^</sup>
Lead, Total (mg/L)	0.000143	0.000159	0.000176	0.000187	0.000293	0.000523	0.000365	0.000615	0.008 <sup>1</sup>
Mercury, Total (mg/L)	0.000005	0.000005	0.000005	0.000005	0.000005	0.000004	0.000005	0.000005	0.0002 <sup>^</sup>
Nickel, Total (mg/L)	0.00152	0.00179	0.00183	0.00177	0.00274	0.00262	0.00233	0.00249	0.025 <sup>1</sup>
Phosphorus, Total (mg/L)	0.002	0.050	0.069	0.062	0.054	0.059	0.057	0.055	0.1 <sup>1</sup>
Zinc, Total (mg/L)	0.00383	0.00305	0.00488	0.00524	0.00523	0.00401	0.00430	0.00533	0.02 <sup>^</sup>

\* CEQG

<sup>^</sup> PWQO

<sup>1</sup> 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* <sup>^1</sup>
Cyanide, Free (mg/L)	0.0008	0.0008	0.0008	0.0008	0.0008	0.0010	0.0011	0.0006	0.005 <sup>1</sup>
Cyanide, Total (mg/L)	0.0008	0.0010	0.0009	0.0009	0.0011	0.0011	0.0011	0.0008	0.005* <sup>^</sup>
Field pH (mg/L)	7.38	7.59	7.33	7.44	7.35	7.26	7.29	7.44	6.5-8.5 <sup>^</sup>
Total Suspended Solids (mg/L)	7.6	5.6	9.9	17.7	15.7	13.5	12.8	12.9	30 <sup>1</sup>
Aluminium, Total (mg/L)	<b>0.212</b>	<b>0.190</b>	<b>0.229</b>	<b>0.441</b>	<b>0.473</b>	<b>0.568</b>	<b>0.498</b>	<b>0.483</b>	0.075 <sup>^</sup>
Arsenic, Total (mg/L)	0.0013	0.0015	0.0015	0.0015	0.0017	0.0019	0.0019	0.0013	0.01 <sup>1</sup>
Cadmium, Total (mg/L)	0.000013	0.000014	0.000015	0.000016	0.000024	0.000020	0.000021	0.000016	0.0001-0.0005 <sup>^</sup>
Chromium, Total (mg/L)	0.0010	0.0008	0.0007	0.0011	0.0013	0.0014	0.0013	0.0011	0.001* <sup>^</sup>
Cobalt, Total (mg/L)	0.0007	0.0008	0.0007	0.0007	0.0011	0.0007	0.0008	0.0004	0.0009 <sup>^</sup>
Copper, Total (mg/L)	0.00103	0.00094	0.00104	0.00182	0.00366	0.00191	0.00200	0.00166	0.005 <sup>^</sup> ,0.008 <sup>1</sup>
Iron, Total (mg/L)	<b>1.273</b>	<b>1.022</b>	<b>1.145</b>	<b>1.329</b>	<b>1.454</b>	<b>1.161</b>	<b>1.354</b>	<b>0.781</b>	0.3* <sup>^</sup>
Lead, Total (mg/L)	0.000189	0.000184	0.000258	0.000316	0.000392	0.000523	0.000506	0.000377	0.008 <sup>1</sup>
Mercury, Total (mg/L)	0.000004	0.000004	0.000005	0.000004	0.000004	0.000004	0.000004	0.000004	0.0002 <sup>^</sup>
Nickel, Total (mg/L)	0.00171	0.00191	0.00193	0.00216	0.00318	0.00262	0.00273	0.00176	0.025 <sup>1</sup>
Phosphorus, Total (mg/L)	0.002	0.090	0.137	0.125	0.111	0.059	0.069	0.036	0.1 <sup>1</sup>
Zinc, Total (mg/L)	0.00483	0.00301	0.00295	0.00789	0.00642	0.00401	0.00480	0.00410	0.02 <sup>^</sup>

\* CEQG

<sup>^</sup> PWQO

<sup>1</sup> 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* <sup>1</sup>
Cyanide, Free (mg/L)	0.0007	0.0007	0.0006	0.0007	0.0006	0.0008	0.0012	0.0005	0.005 <sup>1</sup>
Cyanide, Total (mg/L)	0.0006	0.0007	0.0008	0.0007	0.0011	0.0007	0.0007	0.0005	0.005* <sup>1</sup>
Field pH (mg/L)	7.40	7.57	7.79	7.70	7.65	7.70	7.74	7.92	6.5-8.5 <sup>1</sup>
Total Suspended Solids (mg/L)	4.4	8.0	16.4	10.6	12.2	20.0	28.8	9.7	30 <sup>1</sup>
Aluminium, Total (mg/L)	<b>0.133</b>	<b>0.223</b>	<b>0.274</b>	<b>0.259</b>	<b>0.501</b>	<b>0.937</b>	<b>1.176</b>	<b>0.797</b>	0.075 <sup>1</sup>
Arsenic, Total (mg/L)	0.0011	0.0014	0.0019	0.0018	0.0016	0.0019	0.0024	0.0012	0.01 <sup>1</sup>
Cadmium, Total (mg/L)	0.001090	0.000015	0.000011	0.000010	0.000020	0.000023	0.000026	0.000014	0.0001-0.0005 <sup>1</sup>
Chromium, Total (mg/L)	0.0005	0.0007	0.0008	0.0007	0.0011	0.0018	0.0022	0.0013	0.001* <sup>1</sup>
Cobalt, Total (mg/L)	0.0005	0.0006	0.0009	0.0006	0.0006	0.0009	0.0011	0.0004	0.0009 <sup>1</sup>
Copper, Total (mg/L)	0.00087	0.00127	0.00126	0.00134	0.00303	0.00225	0.00265	0.00183	0.005 <sup>1</sup> ,0.008 <sup>1</sup>
Iron, Total (mg/L)	<b>0.975</b>	<b>0.919</b>	<b>2.122</b>	<b>1.058</b>	<b>0.929</b>	<b>1.674</b>	<b>1.878</b>	<b>0.856</b>	0.3* <sup>1</sup>
Lead, Total (mg/L)	0.000163	0.000227	0.000292	0.000232	0.000370	0.000711	0.000900	0.000406	0.008 <sup>1</sup>
Mercury, Total (mg/L)	0.000004	0.000003	0.000003	0.000002	0.000003	0.000005	0.000006	0.000005	0.0002 <sup>1</sup>
Nickel, Total (mg/L)	0.00156	0.00185	0.00207	0.00205	0.00326	0.00316	0.00359	0.00191	0.025 <sup>1</sup>
Phosphorus, Total (mg/L)	0.058	0.081	0.285	0.157	0.069	0.089	0.106	0.045	0.1 <sup>1</sup>
Zinc, Total (mg/L)	0.00617	0.00340	0.00513	0.00887	0.00631	0.00522	0.00687	0.00415	0.02 <sup>1</sup>

\* CEQG

<sup>1</sup> PWQO

<sup>1</sup> 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* <sup>1</sup>
Cyanide, Free (mg/L)									0.005 <sup>1</sup>
Cyanide, Total (mg/L)	0.0010	0.0008	0.0010	0.0010	0.0011			0.0010	0.005* <sup>1</sup>
Field pH (mg/L)	7.24	7.36	7.37	7.49	7.53			7.57	6.5-8.5 <sup>1</sup>
Total Suspended Solids (mg/L)	2.9	7.2	4.4	3.9	12.2			16.0	30 <sup>1</sup>
Aluminium, Total (mg/L)	<b>0.155</b>	<b>0.225</b>	<b>0.114</b>	<b>0.128</b>	<b>0.447</b>			<b>0.764</b>	0.075 <sup>1</sup>
Arsenic, Total (mg/L)	0.0009	0.0011	0.0012	0.0012	0.0013			0.0013	0.01 <sup>1</sup>
Cadmium, Total (mg/L)	0.000008	0.000009	0.000008	0.000008	0.000015			0.000022	0.0001-0.0005 <sup>1</sup>
Chromium, Total (mg/L)	0.0005	0.0006	0.0004	0.0005	0.0009			0.0015	0.001* <sup>1</sup>
Cobalt, Total (mg/L)	0.0003	0.0004	0.0003	0.0003	0.0005			0.0006	0.0009 <sup>1</sup>
Copper, Total (mg/L)	0.00078	0.00088	0.00091	0.00088	0.00179			0.00192	0.005 <sup>1</sup> ,0.008 <sup>1</sup>
Iron, Total (mg/L)	<b>0.509</b>	<b>0.662</b>	<b>0.428</b>	<b>0.448</b>	<b>0.739</b>			<b>1.174</b>	0.3* <sup>1</sup>
Lead, Total (mg/L)	0.000090	0.000161	0.000126	0.000090	0.000270			0.000488	0.008 <sup>1</sup>
Mercury, Total (mg/L)	0.000003	0.000003	0.000003	0.000002	0.000003			0.000005	0.0002 <sup>1</sup>
Nickel, Total (mg/L)	0.00143	0.00162	0.00145	0.00155	0.00213			0.00224	0.025 <sup>1</sup>
Phosphorus, Total (mg/L)	0.023	0.033	0.030	0.032	0.039			0.041	0.1 <sup>1</sup>
Zinc, Total (mg/L)	0.00914	0.00421	0.00513	0.00559	0.00478			0.00696	0.02 <sup>1</sup>

\* CEQG

<sup>1</sup> PWQO

<sup>1</sup> 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* <sup>1</sup>
Cyanide, Free (mg/L)									0.005 <sup>1</sup>
Cyanide, Total (mg/L)									0.005* <sup>1</sup>
Field pH (mg/L)	7.14	7.27	7.23	7.28	7.34			7.49	6.5-8.5 <sup>1</sup>
Total Suspended Solids (mg/L)	4.0	8.4	8.7	3.7	11.4			16.1	30 <sup>1</sup>
Aluminium, Total (mg/L)	<b>0.207</b>	<b>0.284</b>	<b>0.152</b>	<b>0.137</b>	<b>0.343</b>			<b>0.717</b>	0.075 <sup>1</sup>
Arsenic, Total (mg/L)	0.0010	0.0011	0.0011	0.0011	0.0012			0.0013	0.01 <sup>1</sup>
Cadmium, Total (mg/L)	0.000011	0.000010	0.000013	0.000010	0.000015			0.000021	0.0001-0.0005 <sup>1</sup>
Chromium, Total (mg/L)	0.0006	0.0008	0.0005	0.0004	0.0008			0.0014	0.001* <sup>1</sup>
Cobalt, Total (mg/L)	0.0004	0.0005	0.0003	0.0004	0.0005			0.0005	0.0009 <sup>1</sup>
Copper, Total (mg/L)	0.00086	0.00100	0.00115	0.00081	0.00166			0.00201	0.005 <sup>1</sup> ,0.008 <sup>1</sup>
Iron, Total (mg/L)	<b>0.766</b>	<b>0.816</b>	<b>0.517</b>	<b>0.585</b>	<b>0.837</b>			<b>1.064</b>	0.3* <sup>1</sup>
Lead, Total (mg/L)	0.000149	0.000218	0.000153	0.000111	0.000232			0.000513	0.008 <sup>1</sup>
Mercury, Total (mg/L)	0.000003	0.000003	0.000002	0.000003	0.000003			0.000003	0.0002 <sup>1</sup>
Nickel, Total (mg/L)	0.00158	0.00170	0.00167	0.00144	0.00207			0.00222	0.025 <sup>1</sup>
Phosphorus, Total (mg/L)									0.1 <sup>1</sup>
Zinc, Total (mg/L)	0.00395	0.00621	0.00530	0.00240	0.00354			0.00642	0.02 <sup>1</sup>

\* CEQG

<sup>1</sup> PWQO

<sup>1</sup> 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)
<b>ECA Surface Water Trigger Value</b>		<b>0.020</b>	<b>0.005</b>	<b>30</b>	<b>0.01</b>	<b>0.008</b>	<b>0.008</b>	<b>0.025</b>	<b>0.1</b>
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)
<b>ECA Surface Water Trigger Value</b>		<b>0.020</b>	<b>0.005</b>	<b>30</b>	<b>0.01</b>	<b>0.008</b>	<b>0.008</b>	<b>0.025</b>	<b>0.1</b>
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 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)
<b>ECA Surface Water Trigger Value</b>		<b>0.020</b>	<b>0.005</b>	<b>30</b>	<b>0.01</b>	<b>0.008</b>	<b>0.008</b>	<b>0.025</b>	<b>0.1</b>	<b>0.09</b>
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 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)
<b>ECA Surface Water Trigger Value</b>		<b>0.020</b>	<b>0.005</b>	<b>30</b>	<b>0.01</b>	<b>0.008</b>	<b>0.008</b>	<b>0.025</b>	<b>0.1</b>	<b>0.09</b>
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)
<b>ECA Surface Water Trigger Value</b>		<b>0.020</b>	<b>0.005</b>	<b>30</b>	<b>0.01</b>	<b>0.008</b>	<b>0.008</b>	<b>0.025</b>	<b>0.1</b>	<b>0.09</b>
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	<b>0.205</b>	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)
<b>ECA Surface Water Trigger Value</b>		<b>0.020</b>	<b>0.005</b>	<b>30</b>	<b>0.01</b>	<b>0.008</b>	<b>0.008</b>	<b>0.025</b>	<b>0.1</b>	<b>0.09</b>
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	<b>0.132</b>	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	<b>0.00868</b>	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)
<b>ECA Surface Water Trigger Value</b>		<b>0.020</b>	<b>0.005</b>	<b>30</b>	<b>0.01</b>	<b>0.008</b>	<b>0.008</b>	<b>0.025</b>	<b>0.1</b>	<b>0.09</b>
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)
<b>ECA Surface Water Trigger Value</b>		<b>0.020</b>	<b>0.005</b>	<b>30</b>	<b>0.01</b>	<b>0.008</b>	<b>0.008</b>	<b>0.025</b>	<b>0.1</b>	<b>0.09</b>
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)
<b>ECA Surface Water Trigger Value</b>		<b>0.020</b>	<b>0.005</b>	<b>30</b>	<b>0.01</b>	<b>0.008</b>	<b>0.008</b>	<b>0.025</b>	<b>0.1</b>	<b>0.09</b>
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)
<b>ECA Surface Water Trigger Value</b>		<b>0.020</b>	<b>0.005</b>	<b>30</b>	<b>0.01</b>	<b>0.008</b>	<b>0.008</b>	<b>0.025</b>	<b>0.1</b>	<b>0.09</b>
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)
<b>ECA Surface Water Trigger Value</b>		<b>0.020</b>	<b>0.005</b>	<b>30</b>	<b>0.01</b>	<b>0.008</b>	<b>0.008</b>	<b>0.025</b>	<b>0.1</b>	<b>0.09</b>
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)
<b>ECA Benchmark</b>		<b>0.020</b>	<b>0.005</b>	<b>30</b>	<b>0.01</b>	<b>0.008</b>	<b>0.008</b>	<b>0.025</b>	<b>0.1</b>	<b>0.09</b>
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)	<b>0.186</b>	0.101	<b>0.443</b>	<b>0.226</b>	<b>0.228</b>	<b>0.100</b>	<b>0.118</b>	<b>0.166</b>	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)	<b>0.435</b>	<b>0.652</b>	<b>0.784</b>	<b>0.485</b>	<b>0.426</b>	<b>0.224</b>	<b>0.186</b>	<b>0.291</b>	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)	<b>0.137</b>	0.065	<b>0.255</b>	<b>0.111</b>	<b>0.102</b>	<b>0.147</b>	<b>0.211</b>	<b>0.280</b>	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)	<b>0.246</b>	<b>0.543</b>	<b>0.486</b>	<b>0.425</b>	<b>0.549</b>	<b>1.539</b>	<b>0.307</b>	<b>0.436</b>	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)	<b>0.221</b>	0.073	<b>0.230</b>	<b>0.205</b>	<b>0.261</b>	<b>0.168</b>	<b>0.304</b>	<b>0.168</b>	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)	<b>0.589</b>	<b>0.378</b>	<b>0.469</b>	<b>0.446</b>	<b>0.485</b>	<b>1.246</b>	<b>0.437</b>	<b>0.318</b>	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)	<b>0.238</b>	<b>0.145</b>	<b>0.240</b>	<b>0.307</b>	<b>0.207</b>	<b>0.199</b>	<b>0.349</b>	<b>0.152</b>	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)	<b>0.494</b>	<b>0.499</b>	<b>0.736</b>	<b>0.602</b>	<b>0.467</b>	<b>1.753</b>	<b>0.562</b>	<b>0.290</b>	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	<b>1.658</b>	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)	<b>0.158</b>	<b>0.106</b>	<b>0.161</b>	<b>0.464</b>	<b>0.349</b>	<b>0.477</b>	<b>0.183</b>	<b>0.310</b>	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)	<b>0.320</b>	<b>0.755</b>	<b>0.403</b>	<b>0.694</b>	<b>0.631</b>	<b>5.335</b>	<b>0.297</b>	<b>0.492</b>	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)	<b>0.227</b>	<b>0.078</b>	<b>0.429</b>	<b>0.373</b>	<b>0.183</b>		<b>0.172</b>	<b>0.185</b>	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)	<b>0.310</b>	<b>0.247</b>	<b>0.498</b>	<b>0.648</b>	<b>0.614</b>		<b>0.253</b>	<b>0.298</b>	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)	<b>0.117</b>	<b>0.093</b>			<b>0.090</b>		<b>0.200</b>	<b>0.233</b>	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)	<b>0.370</b>	<b>0.412</b>			<b>0.620</b>		<b>0.313</b>	<b>0.400</b>	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

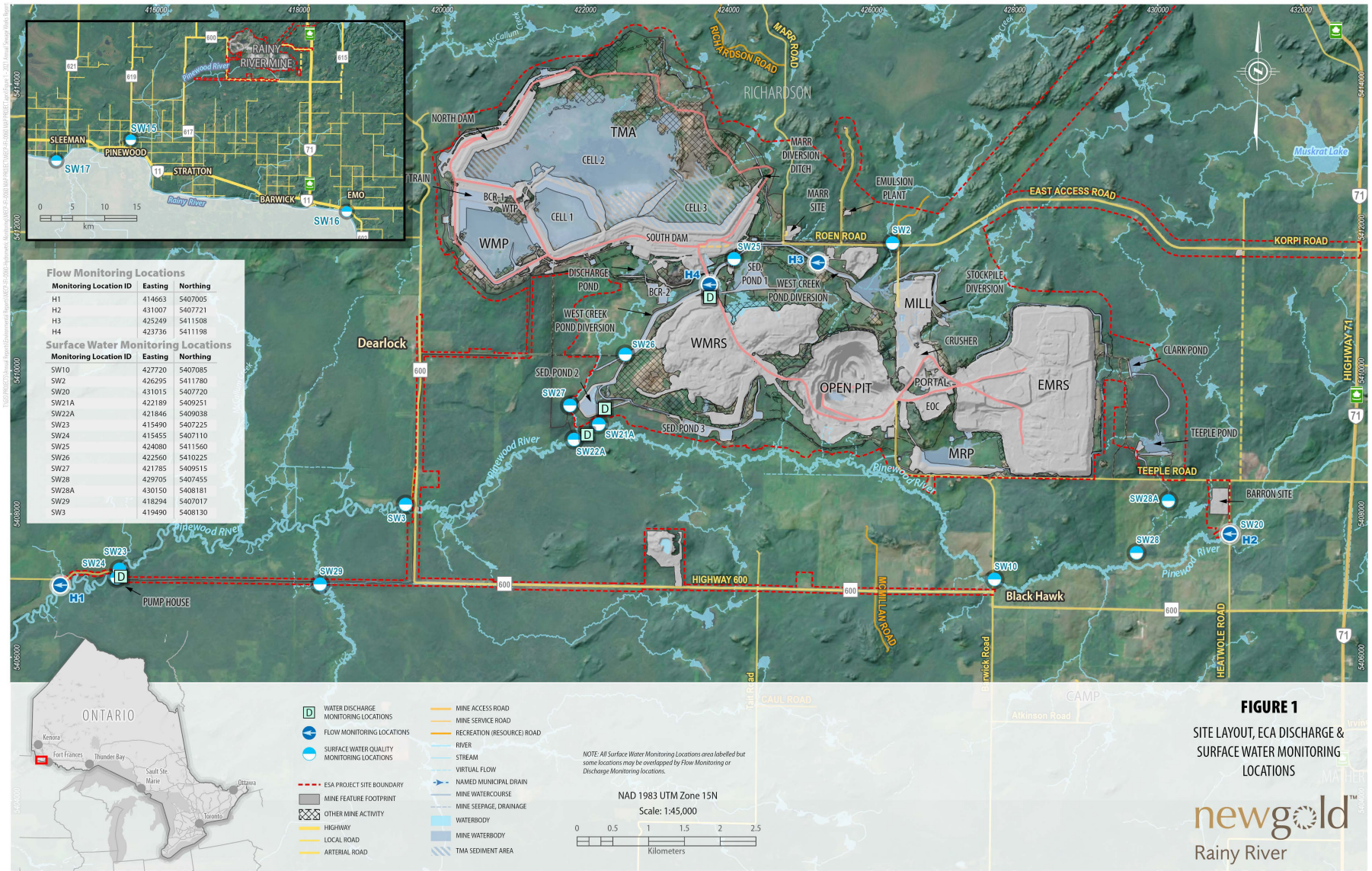


Figure 2a - Rainy River Mine, Field pH Levels in Pinewood River 2015-2022

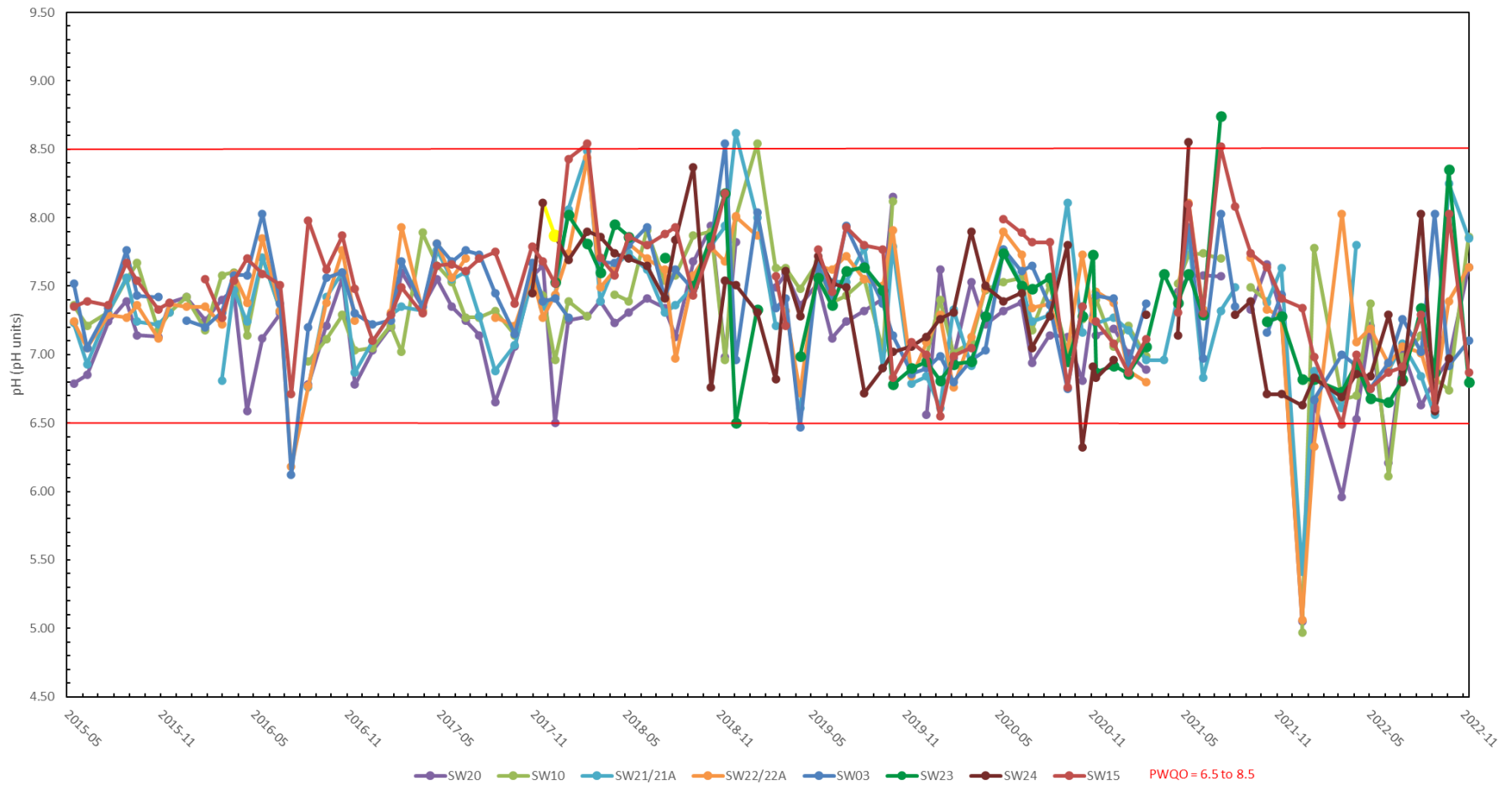




Figure 2b - Rainy River Mine, Field pH Levels in Pinewood River 2022

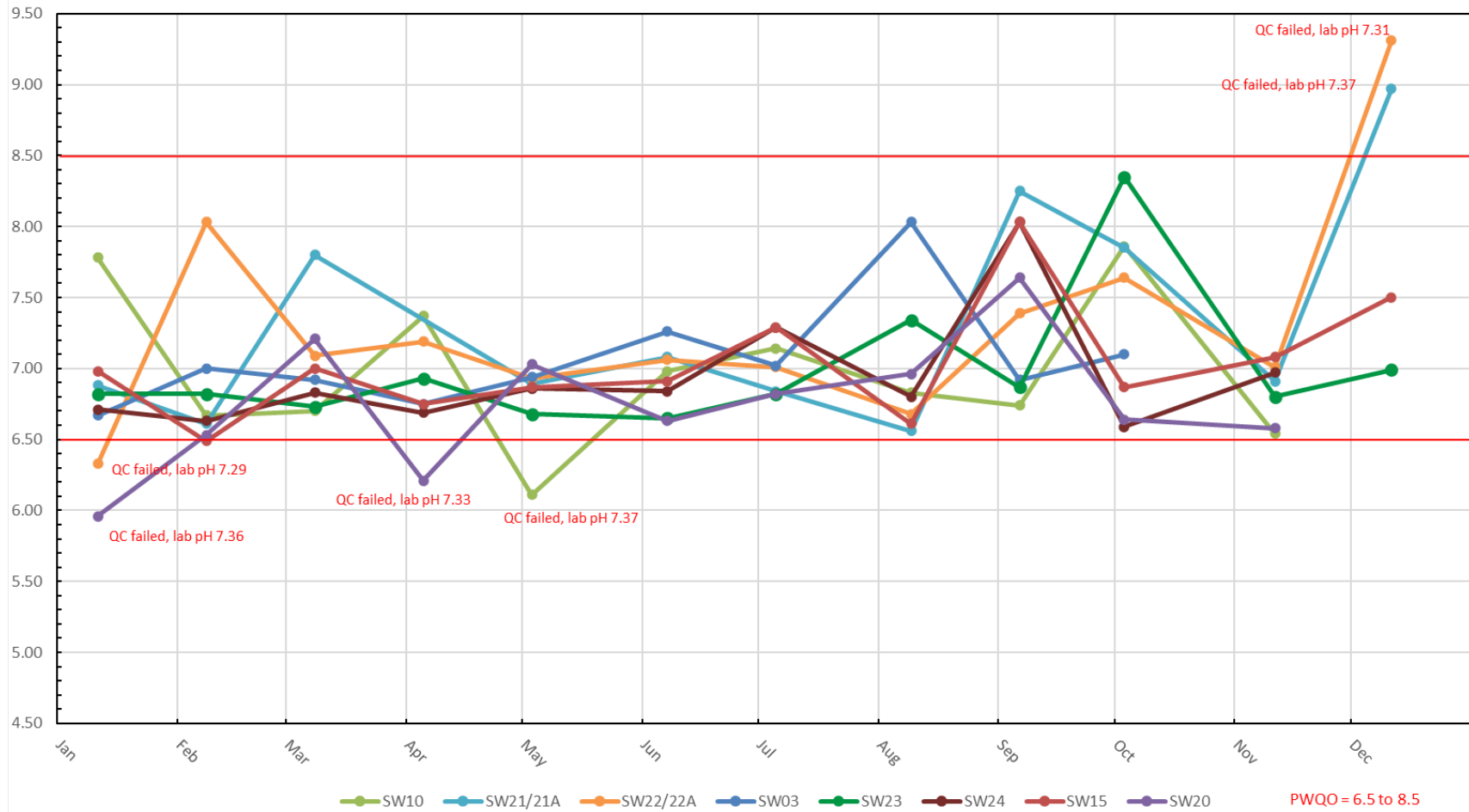


Figure 3a - Rainy River Mine, Total Suspended Solids Concentration in Pinewood River 2015-2022

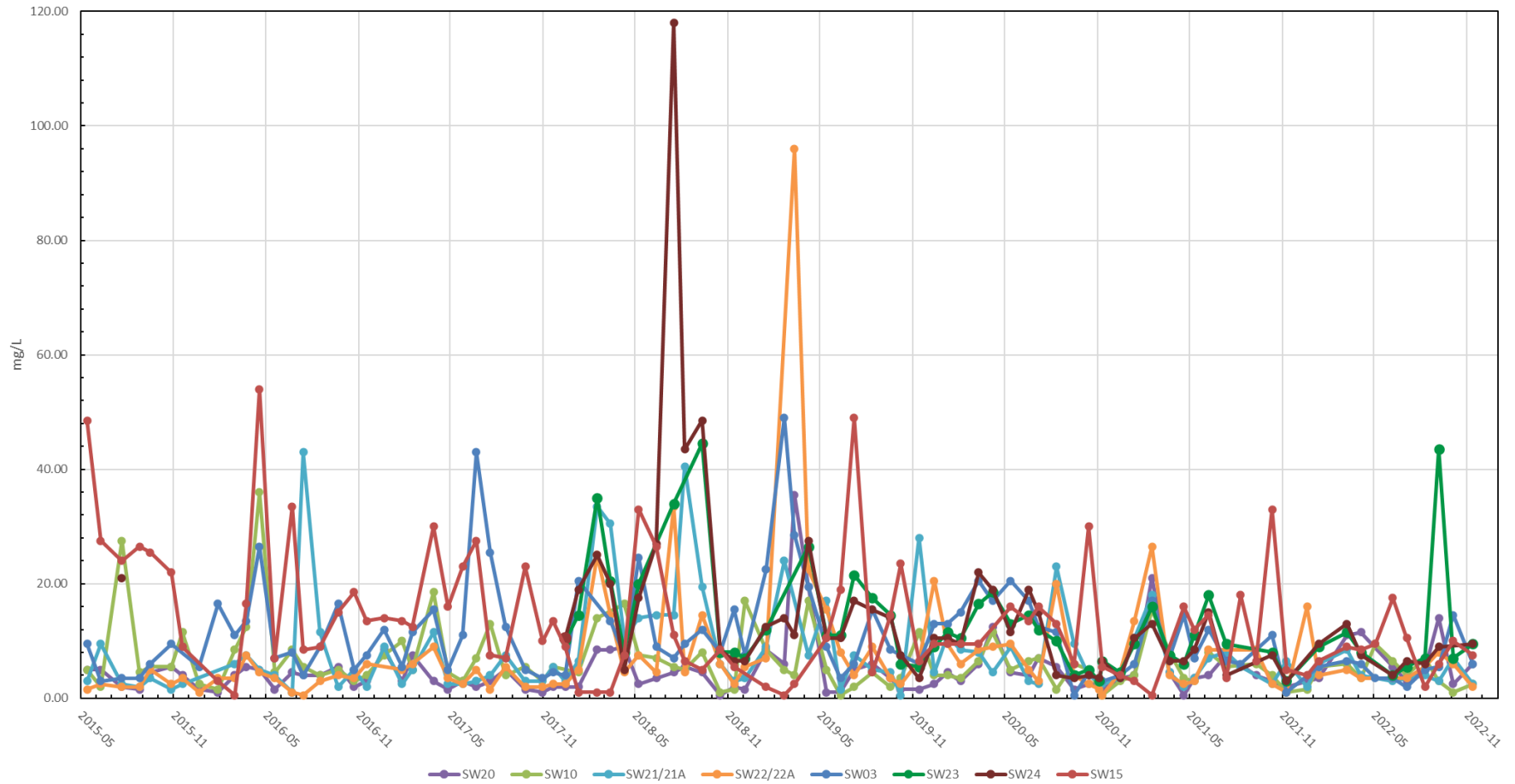


Figure 3b - Rainy River Mine, Total Suspended Solids Concentration in Pinewood River 2022

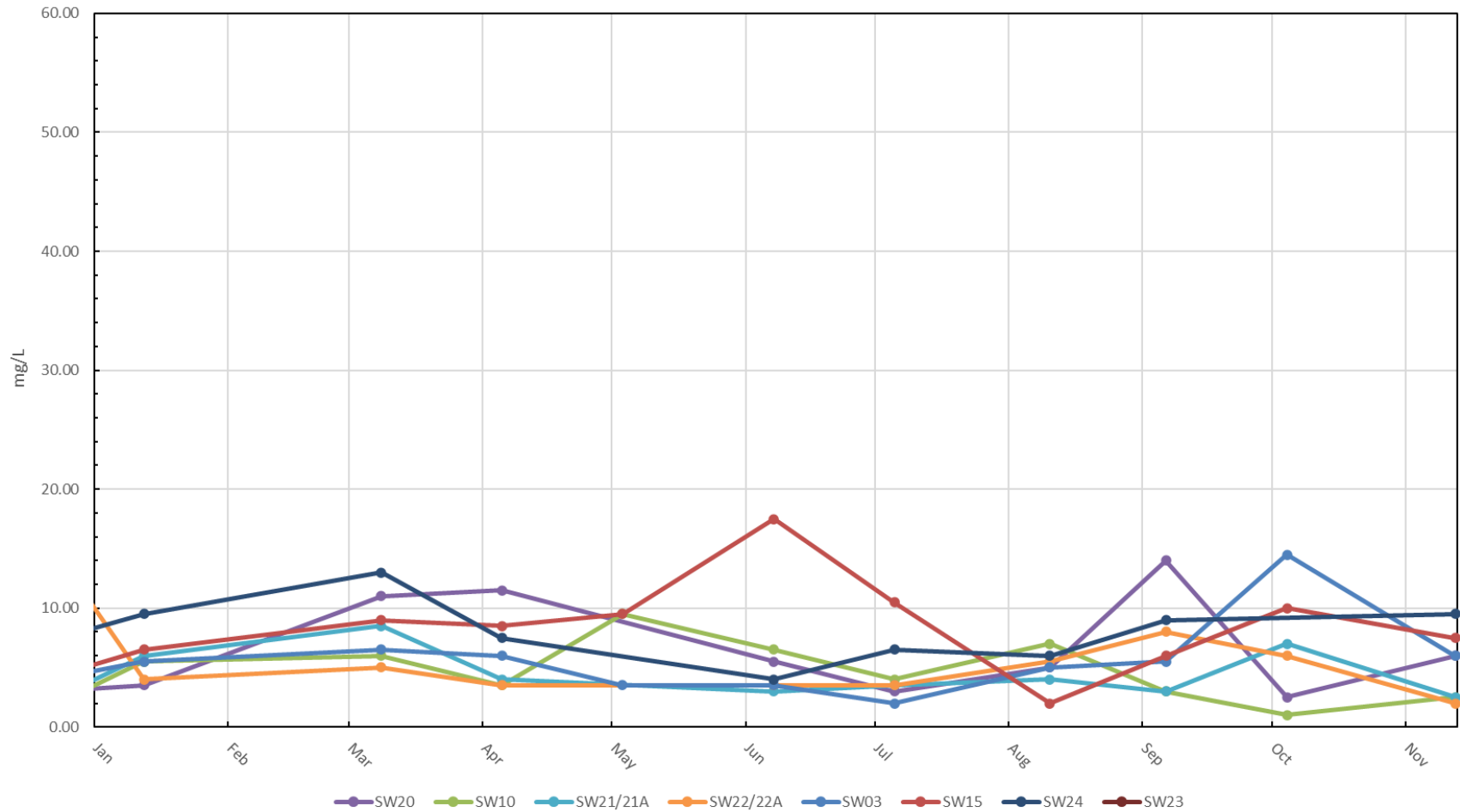


Figure 4a - Rainy River Mine, Total Arsenic in Pinewood River 2015-2022

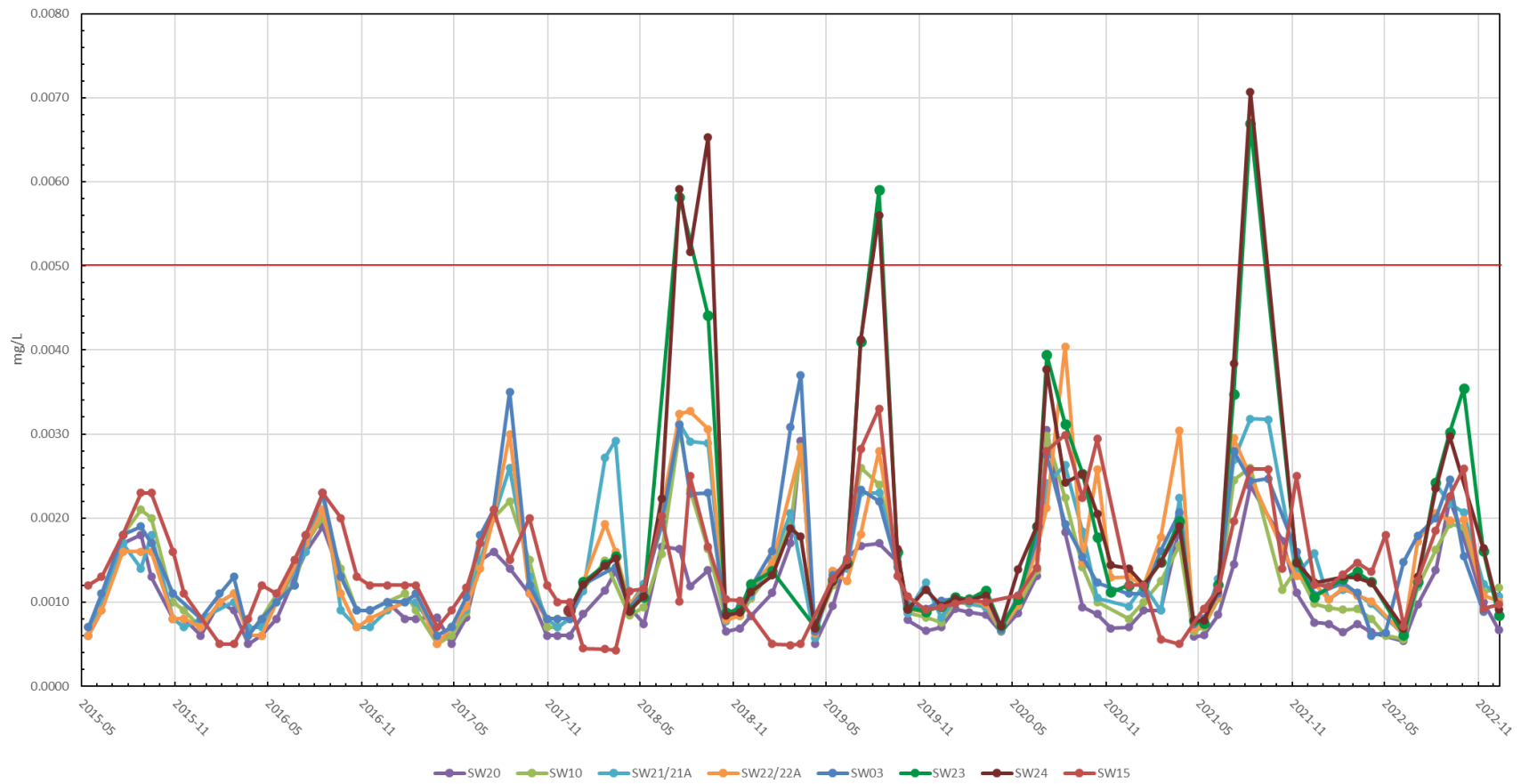


Figure 4b - Rainy River Mine, Total Arsenic in Pinewood River 2022

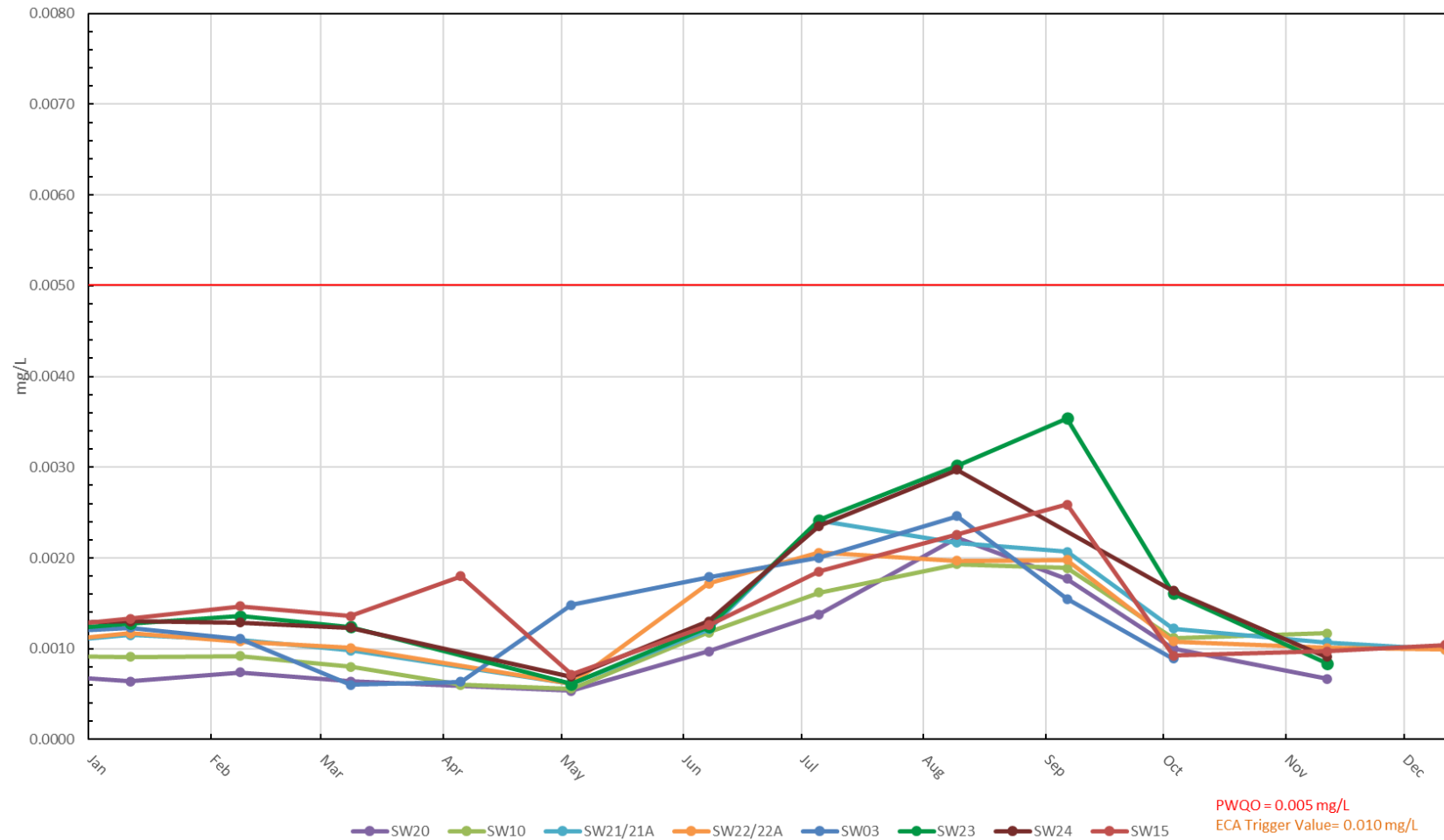


Figure 5b - Rainy River Mine, Total Copper in Pinewood River 2022

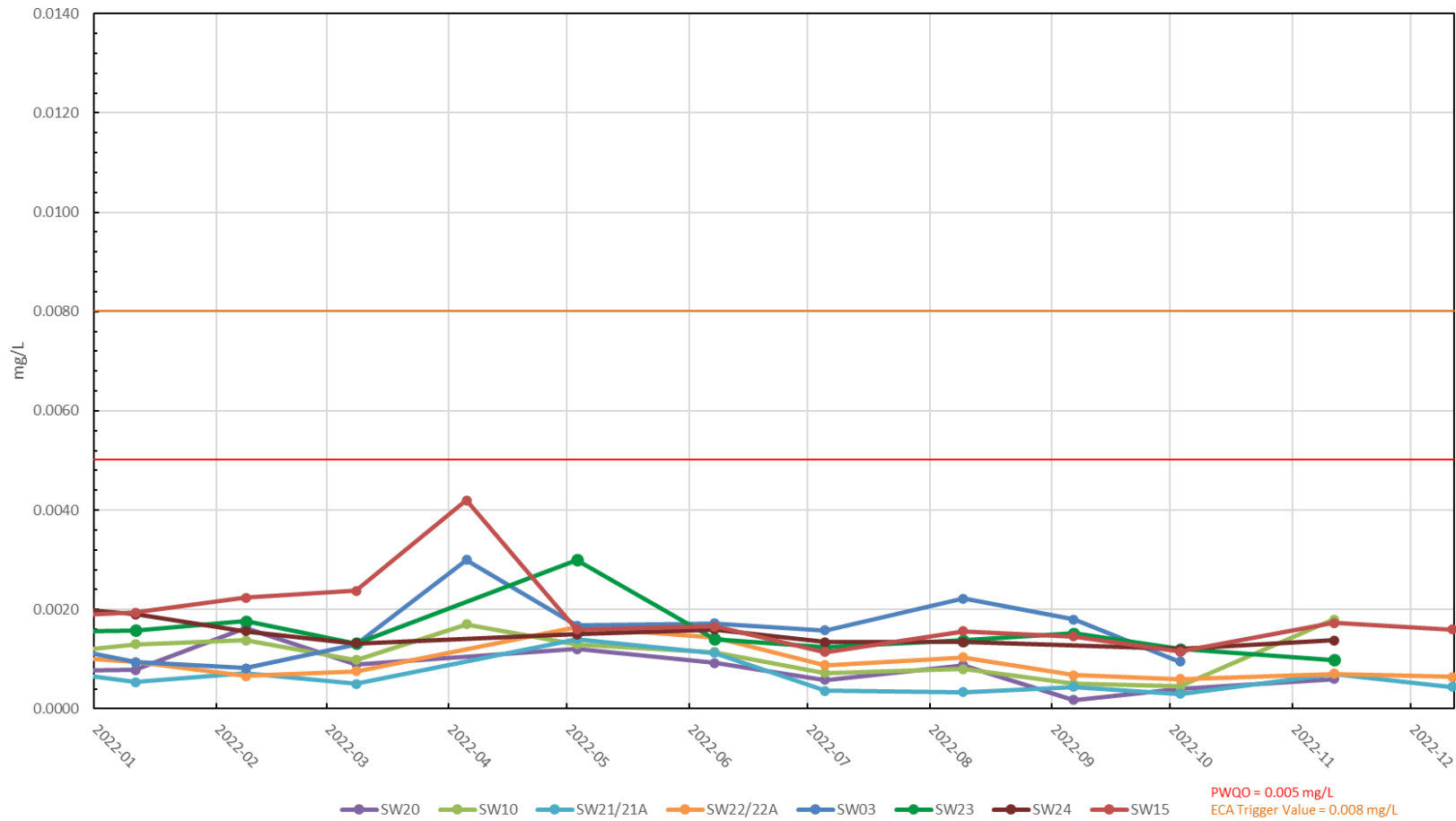


Figure 6a - Rainy River Mine, Total Lead in Pinewood River 2015-2022

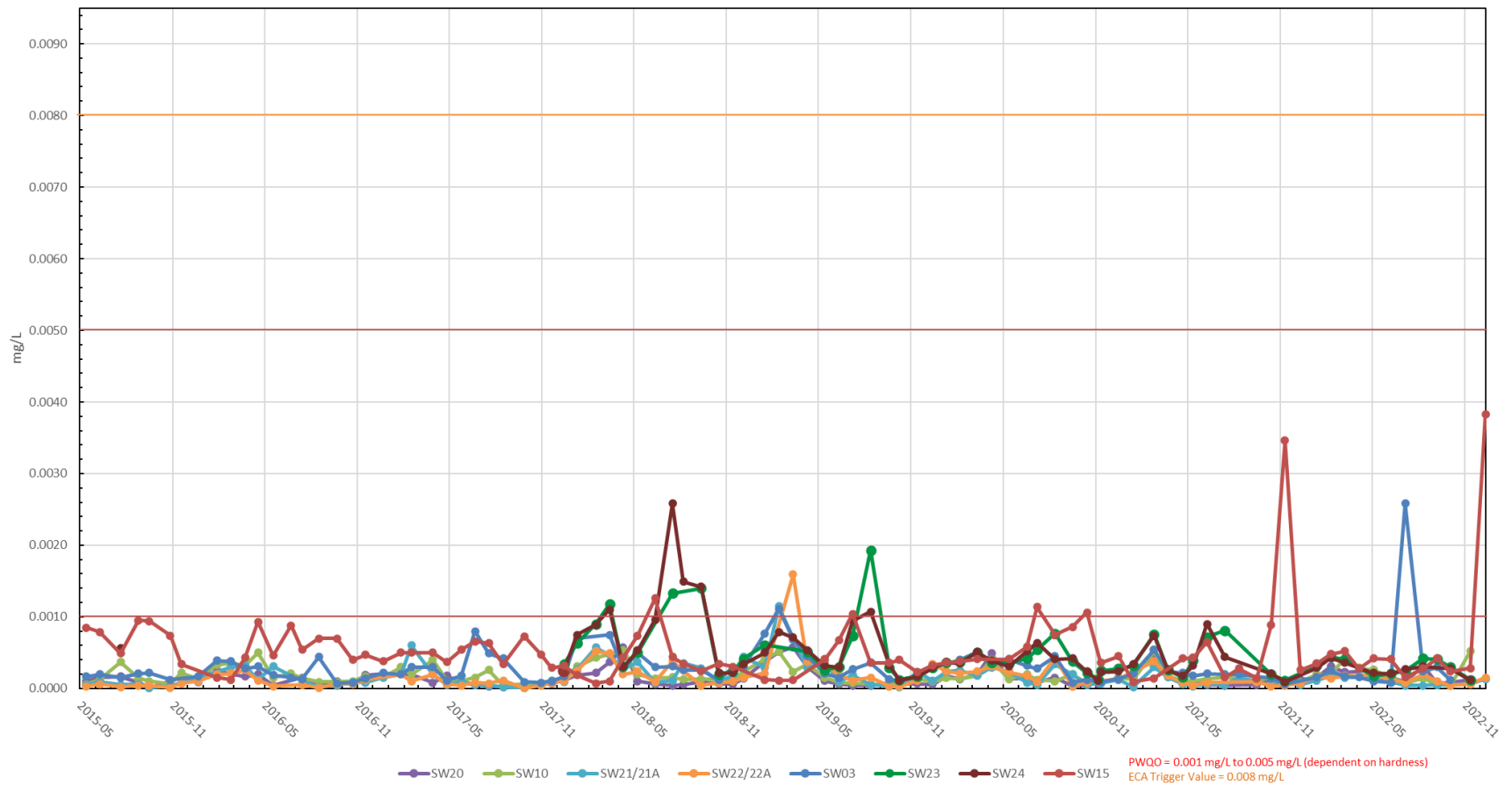


Figure 6b - Rainy River Mine, Total Lead in Pinewood River 2022

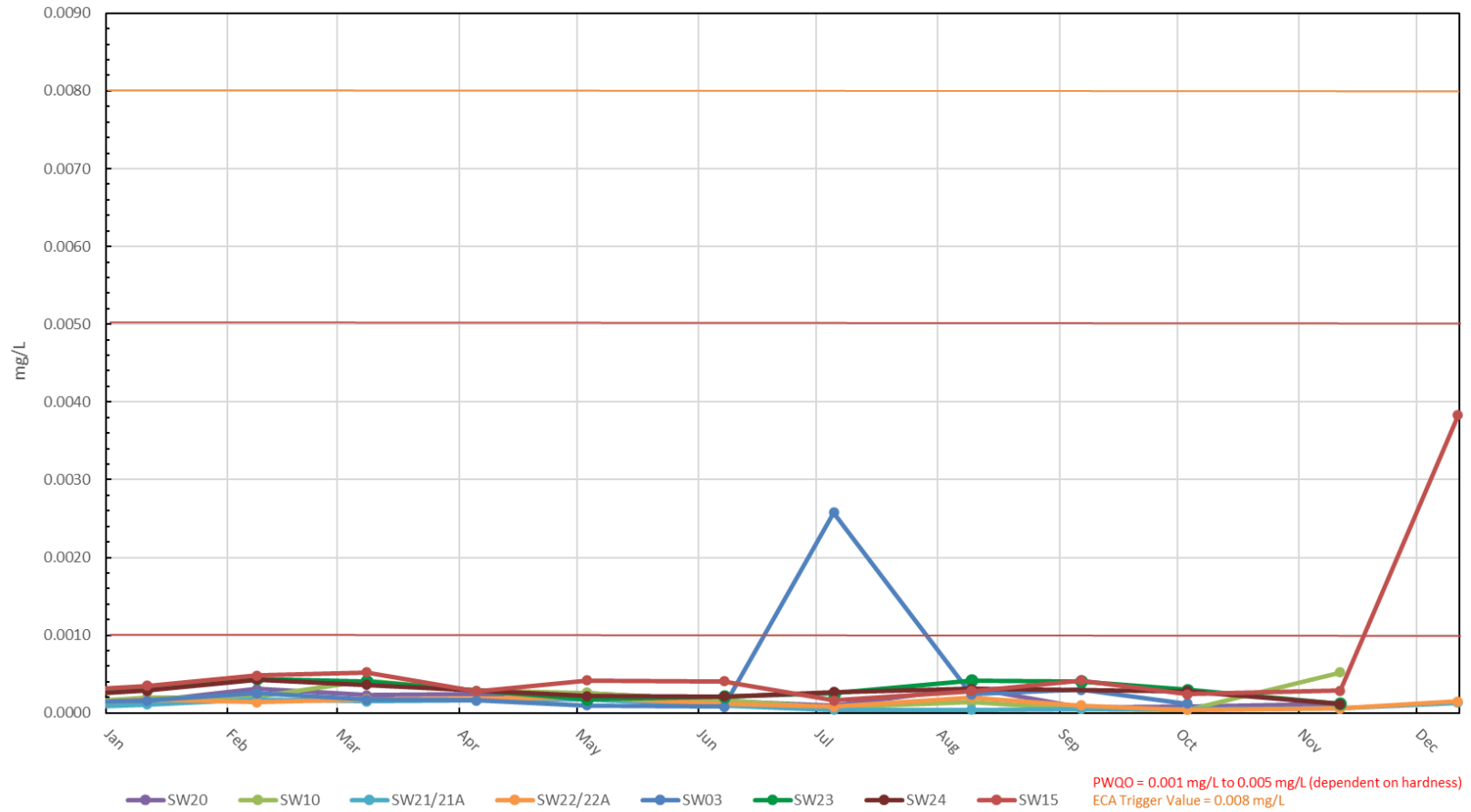




Figure 7a - Rainy River Mine, Total Nickel in Pinewood River 2015-2022

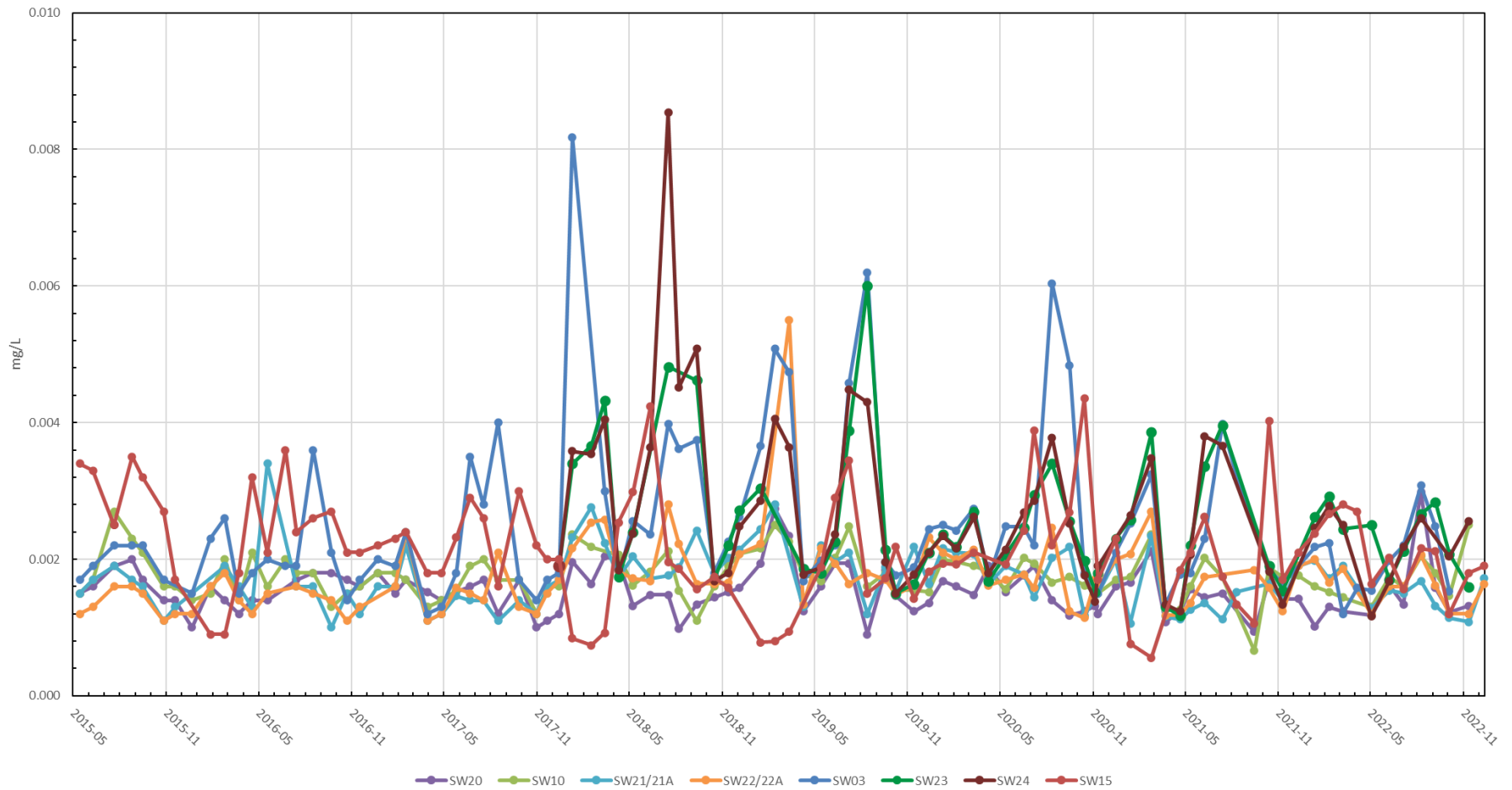


Figure 7b - Rainy River Mine, Total Nickel in Pinewood River 2022

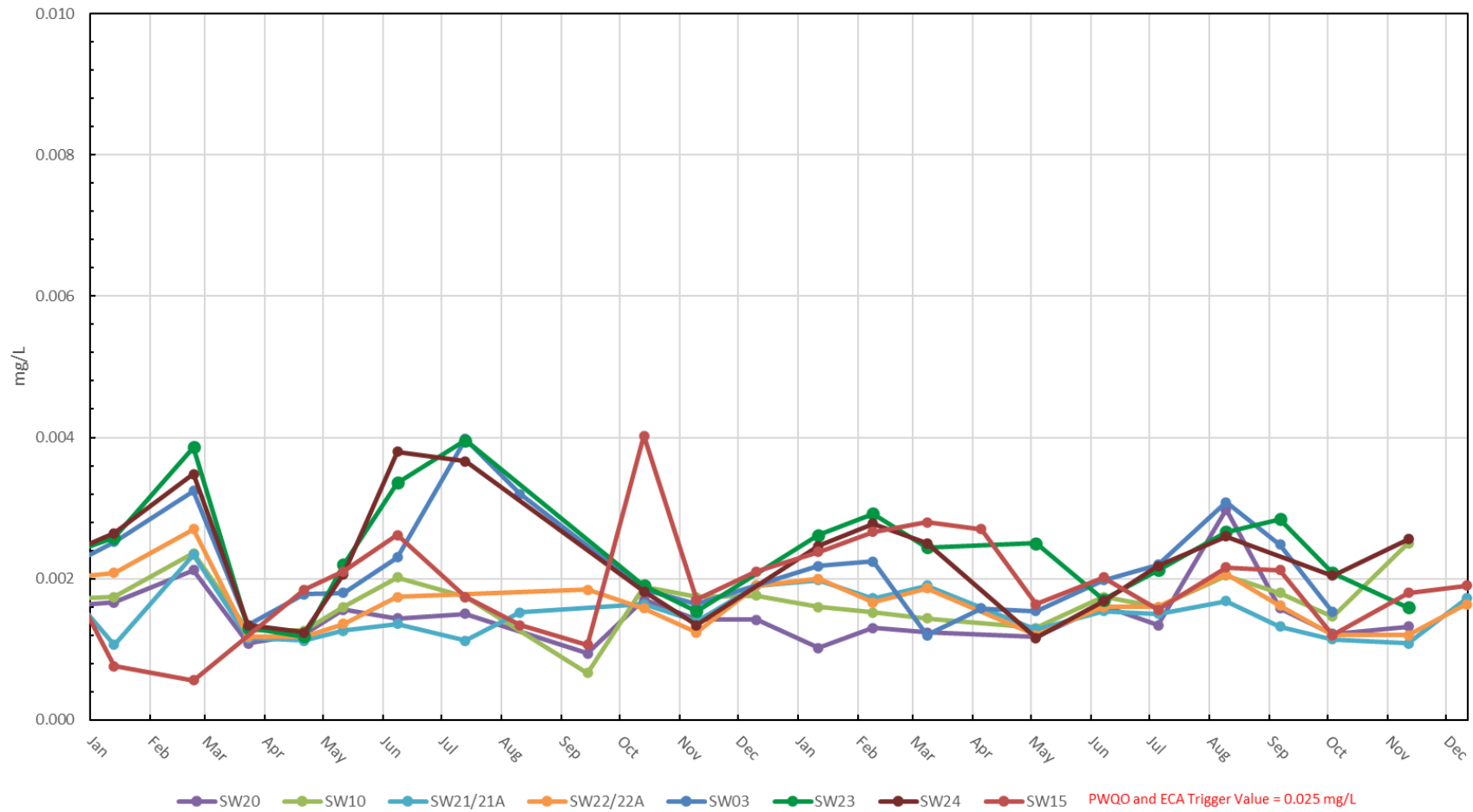


Figure 8a - Rainy River Mine, Total Phosphorus in Pinewood River 2017-2022

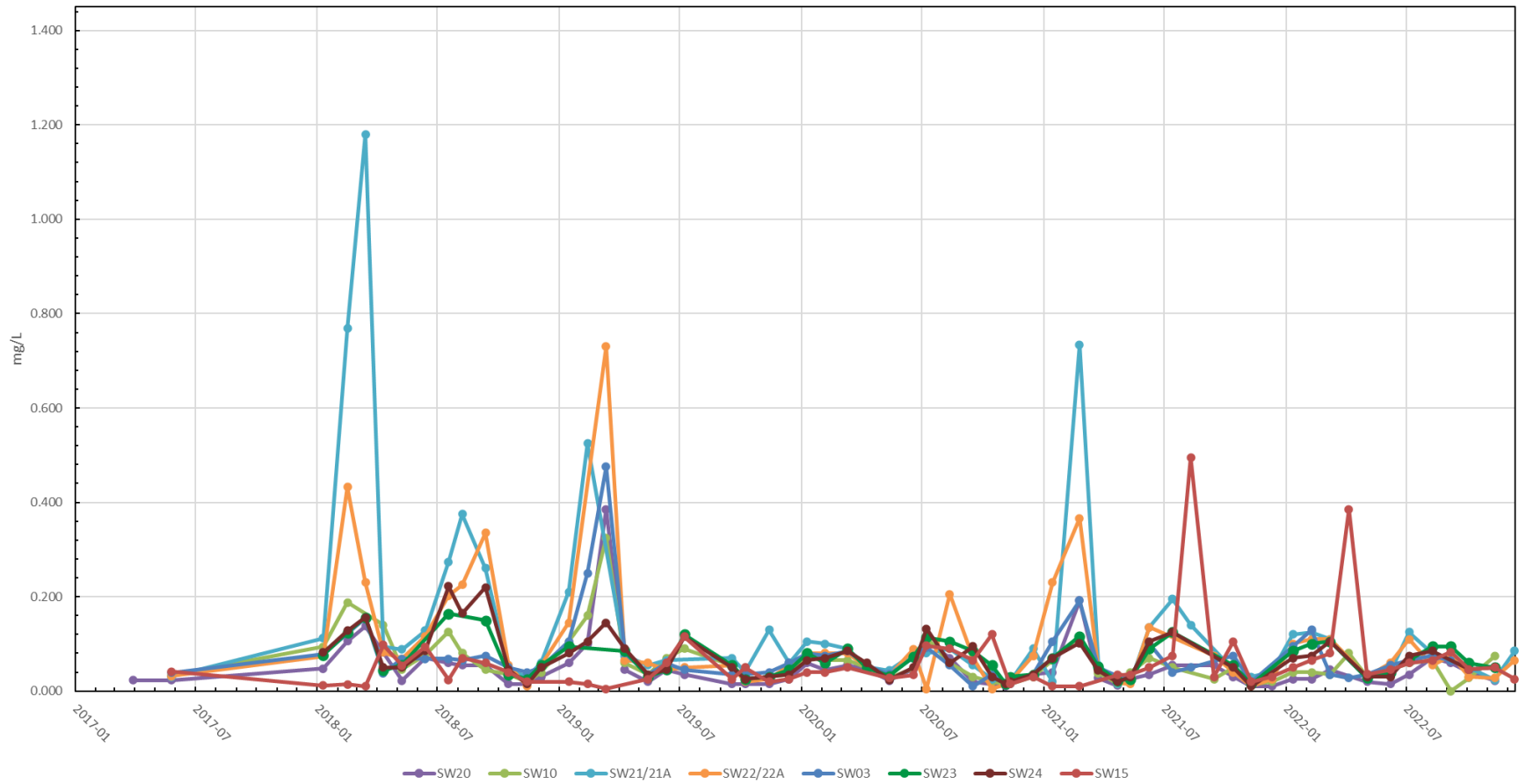


Figure 8b - Rainy River Mine, Total Phosphorus in Pinewood River 2022

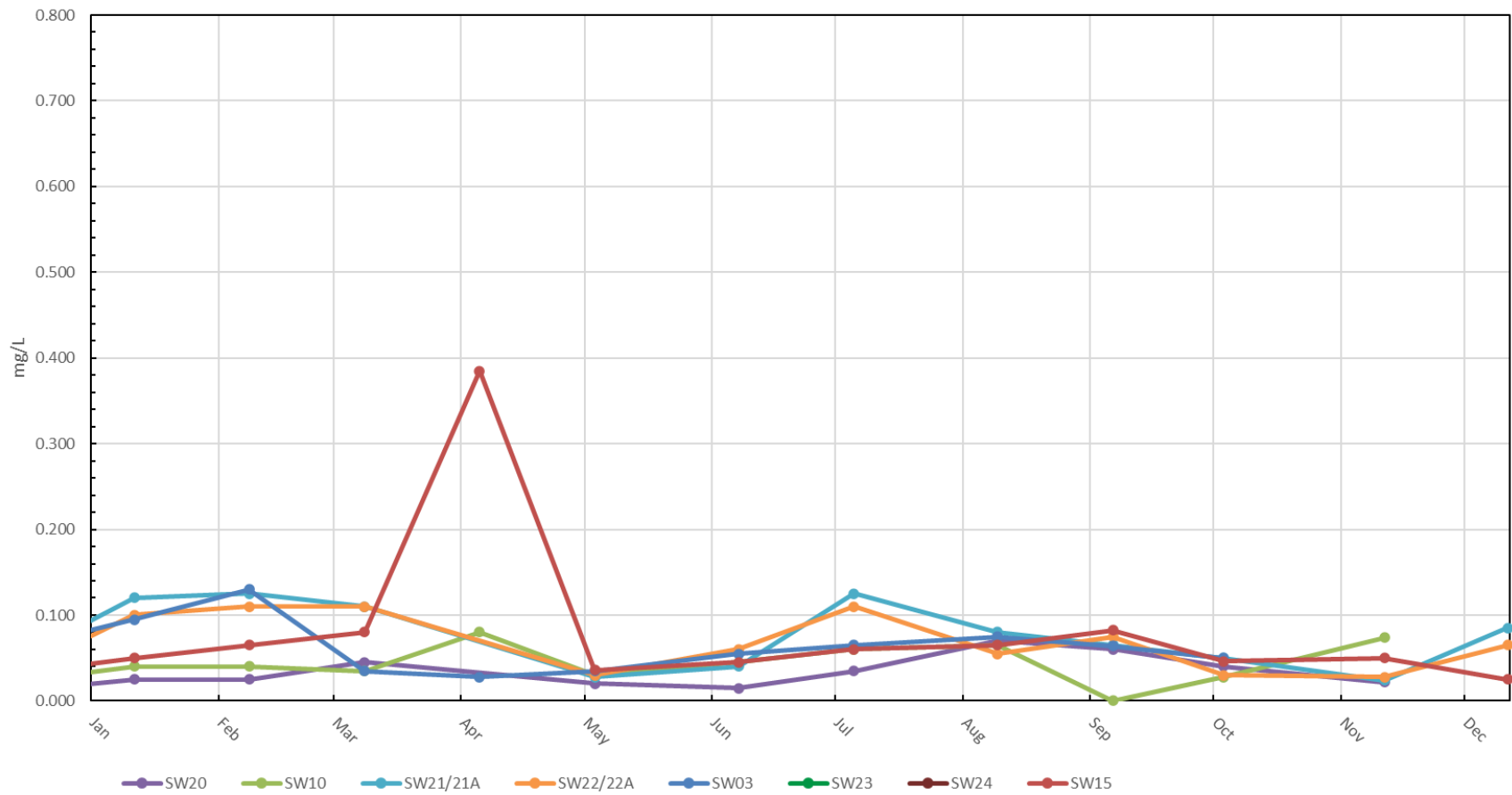


Figure 9a - Rainy River Mine, Total Zinc in Pinewood River 2015-2022

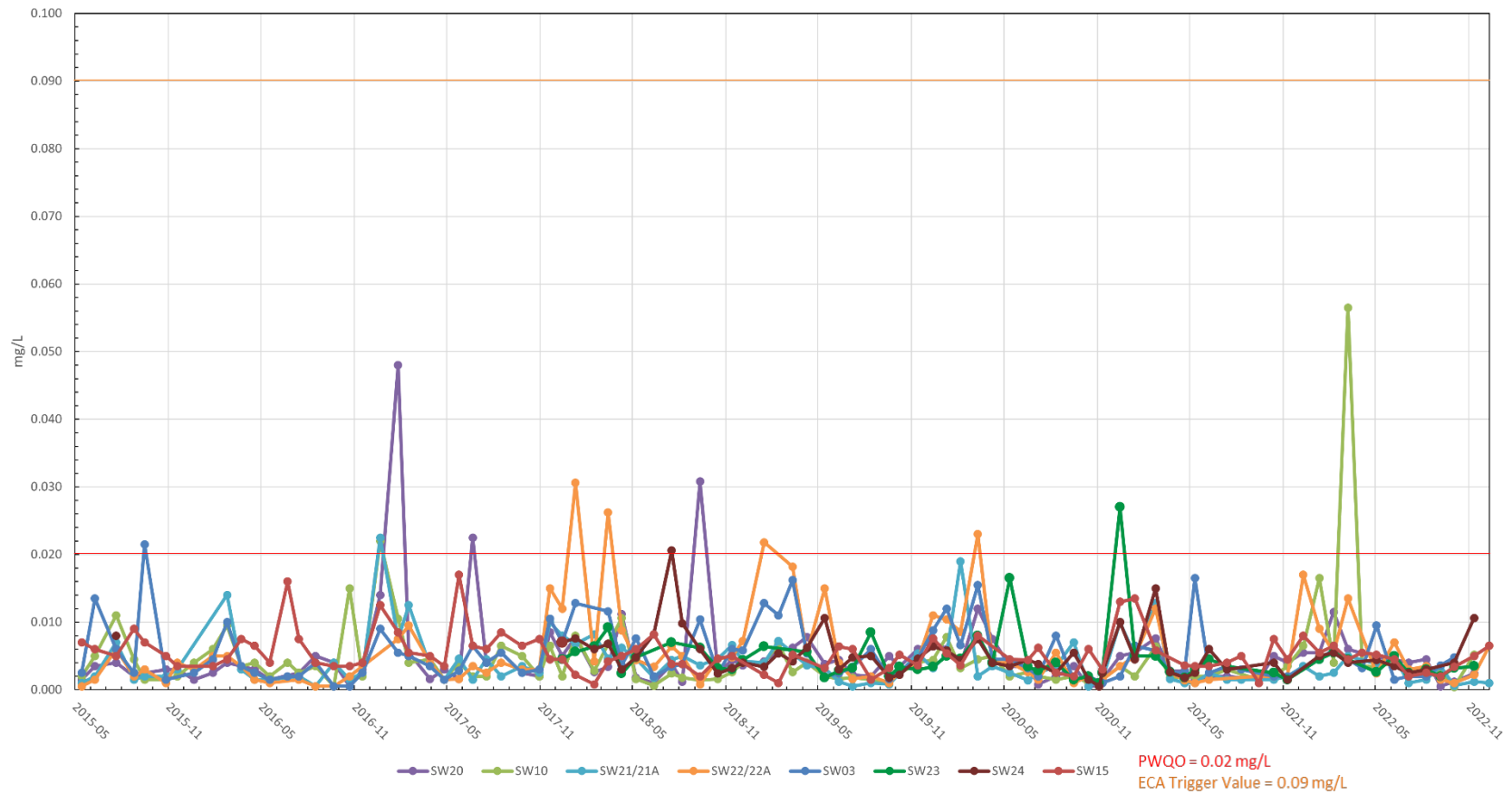


Figure 9b - Rainy River Mine, Total Zinc in Pinewood River 2022

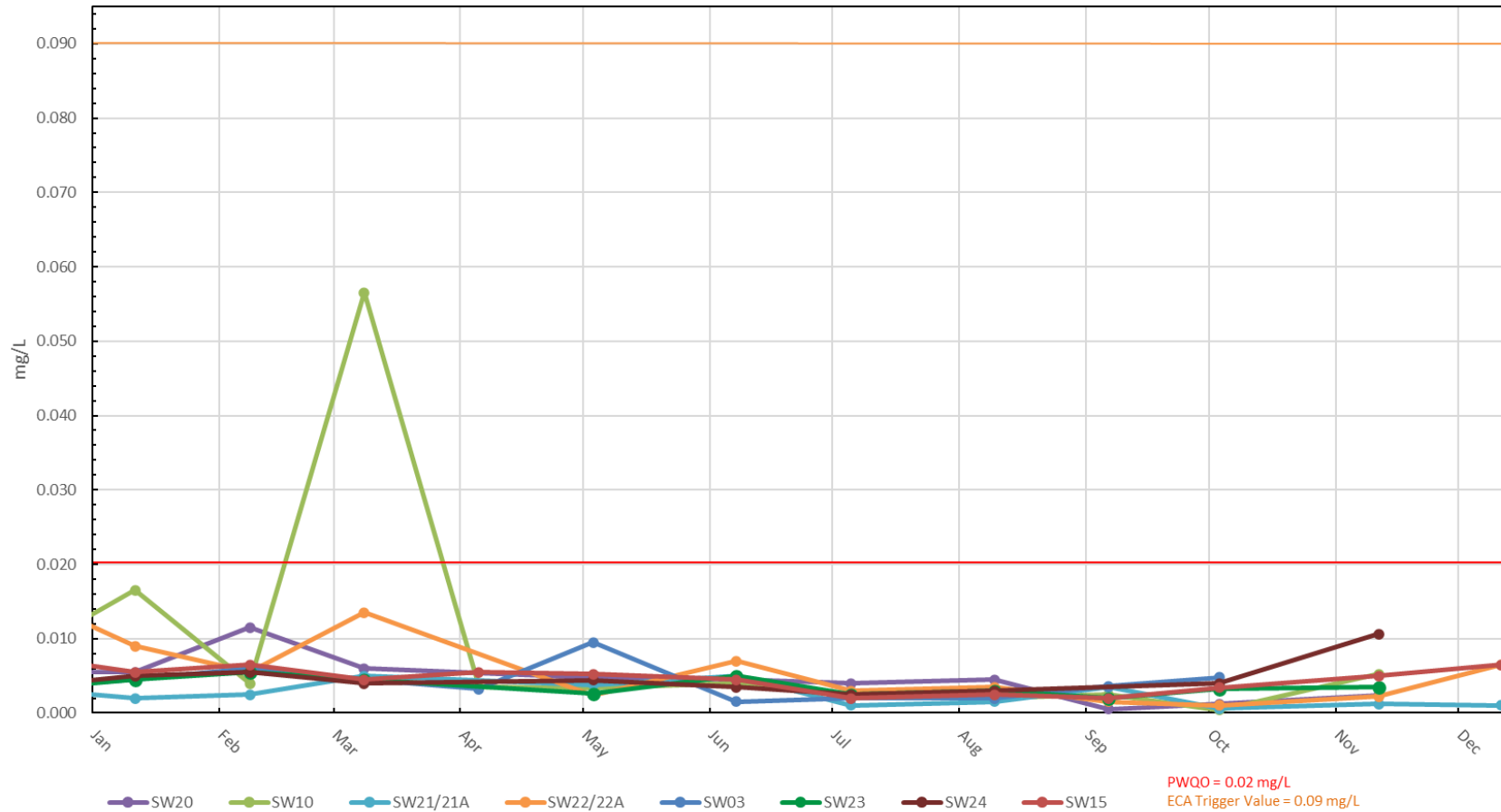


Figure 10a - Rainy River Mine, Total Mercury in Pinewood River 2015-2022

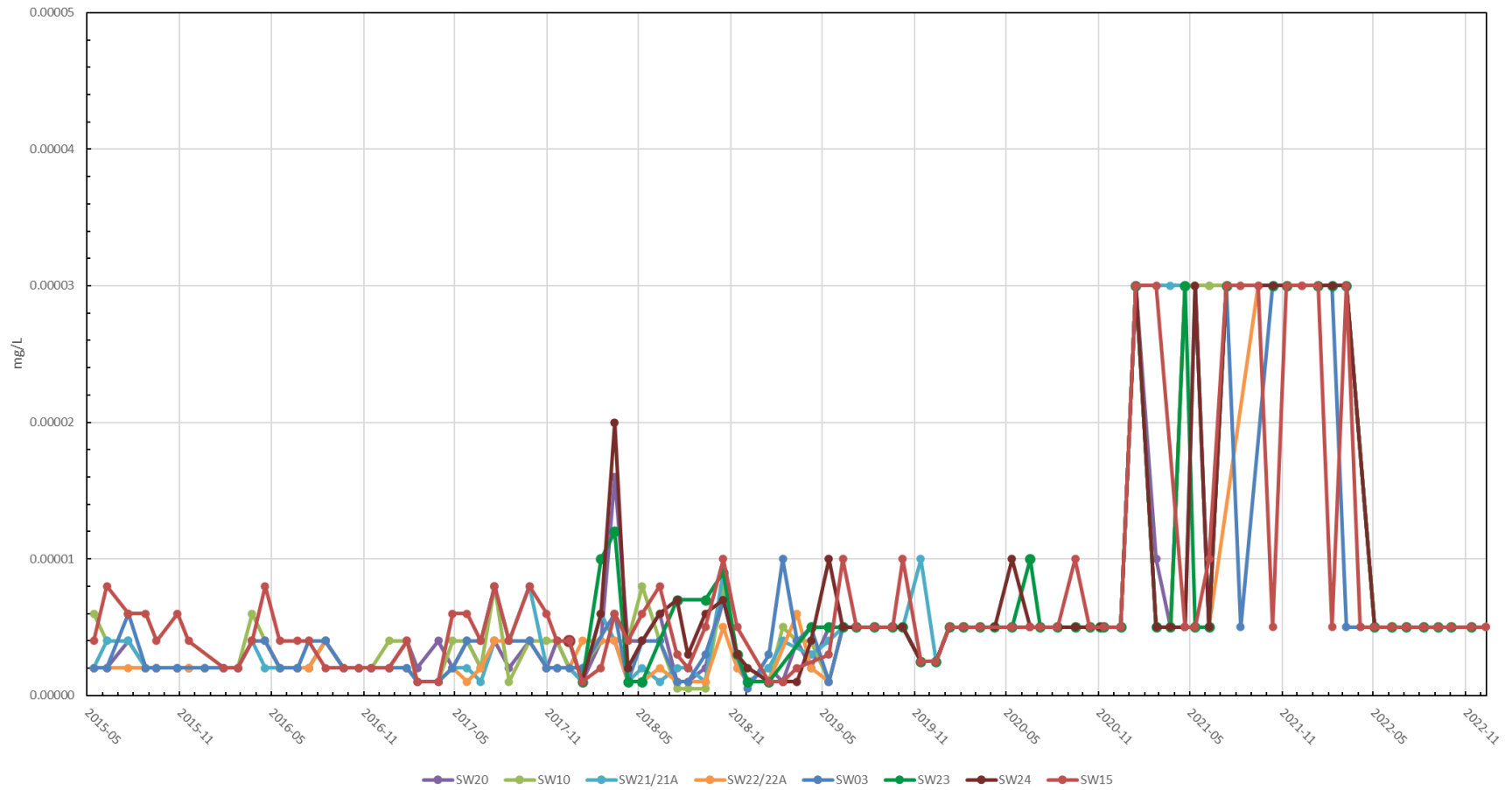


Figure 10b - Rainy River Mine, Total Mercury in Pinewood River 2022

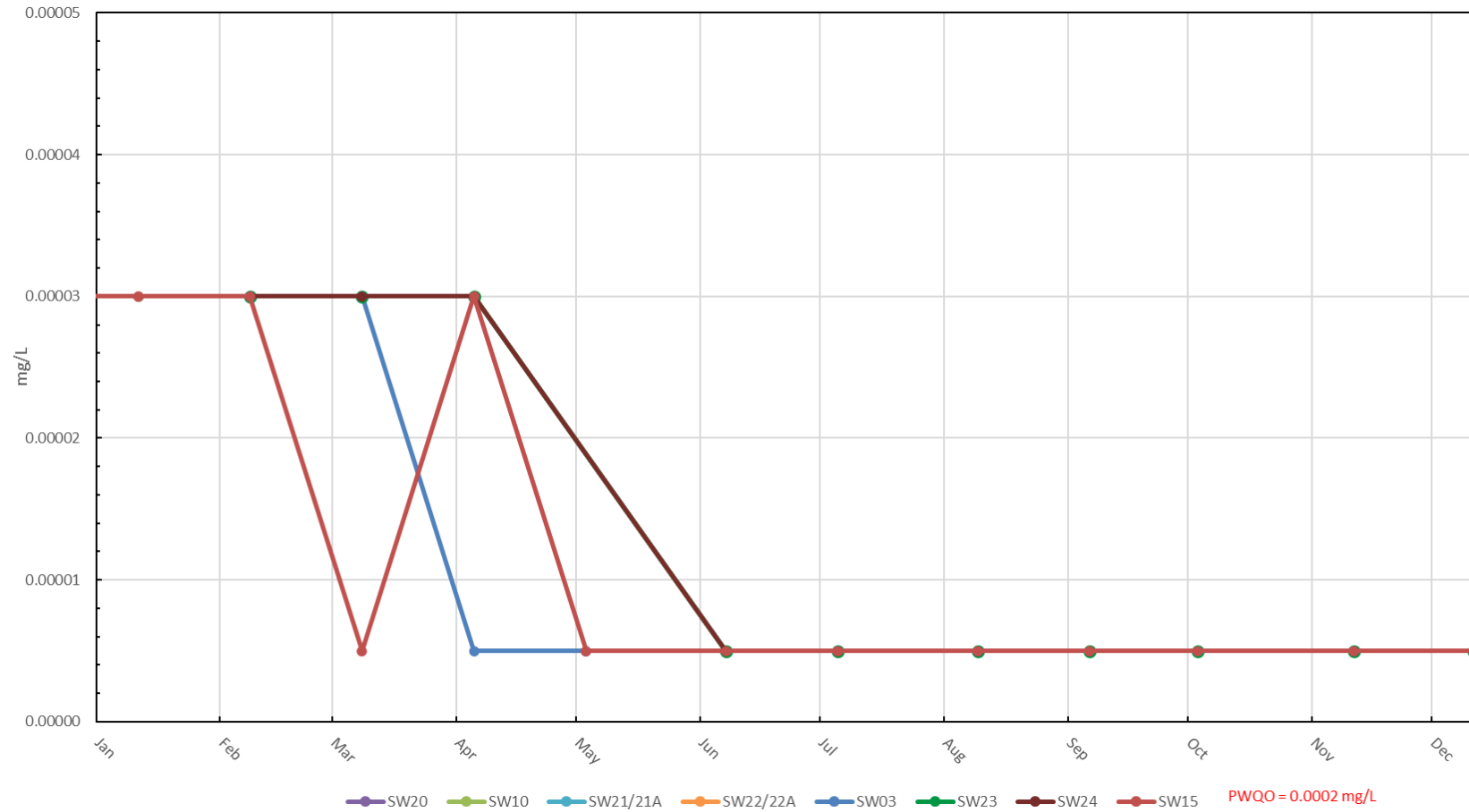




Figure 11a - Rainy River Mine, Un-ionized Ammonia in Pinewood River 2015-2022

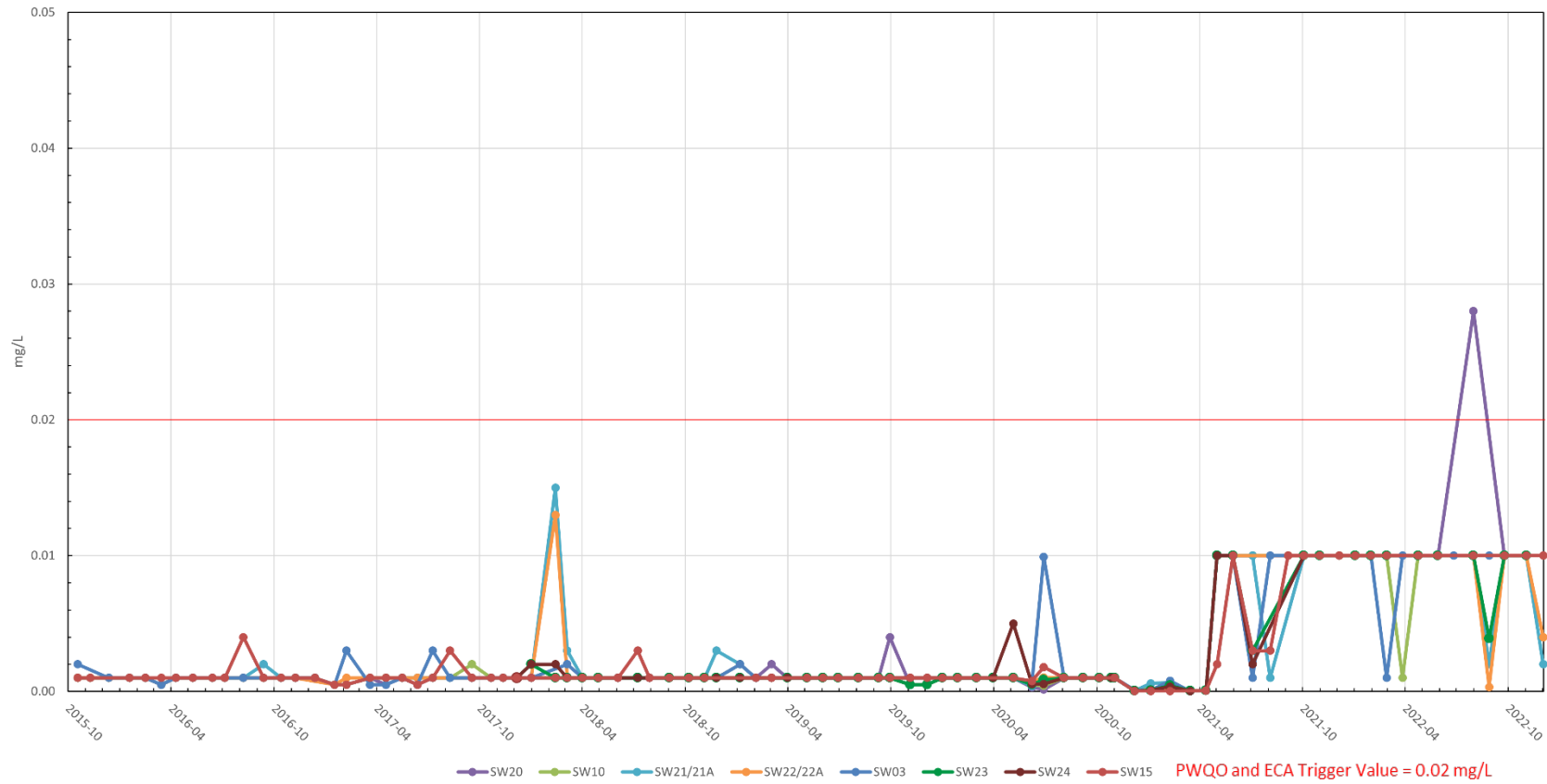


Figure 11b - Rainy River Mine, Un-ionized Ammonia in Pinewood River 2022

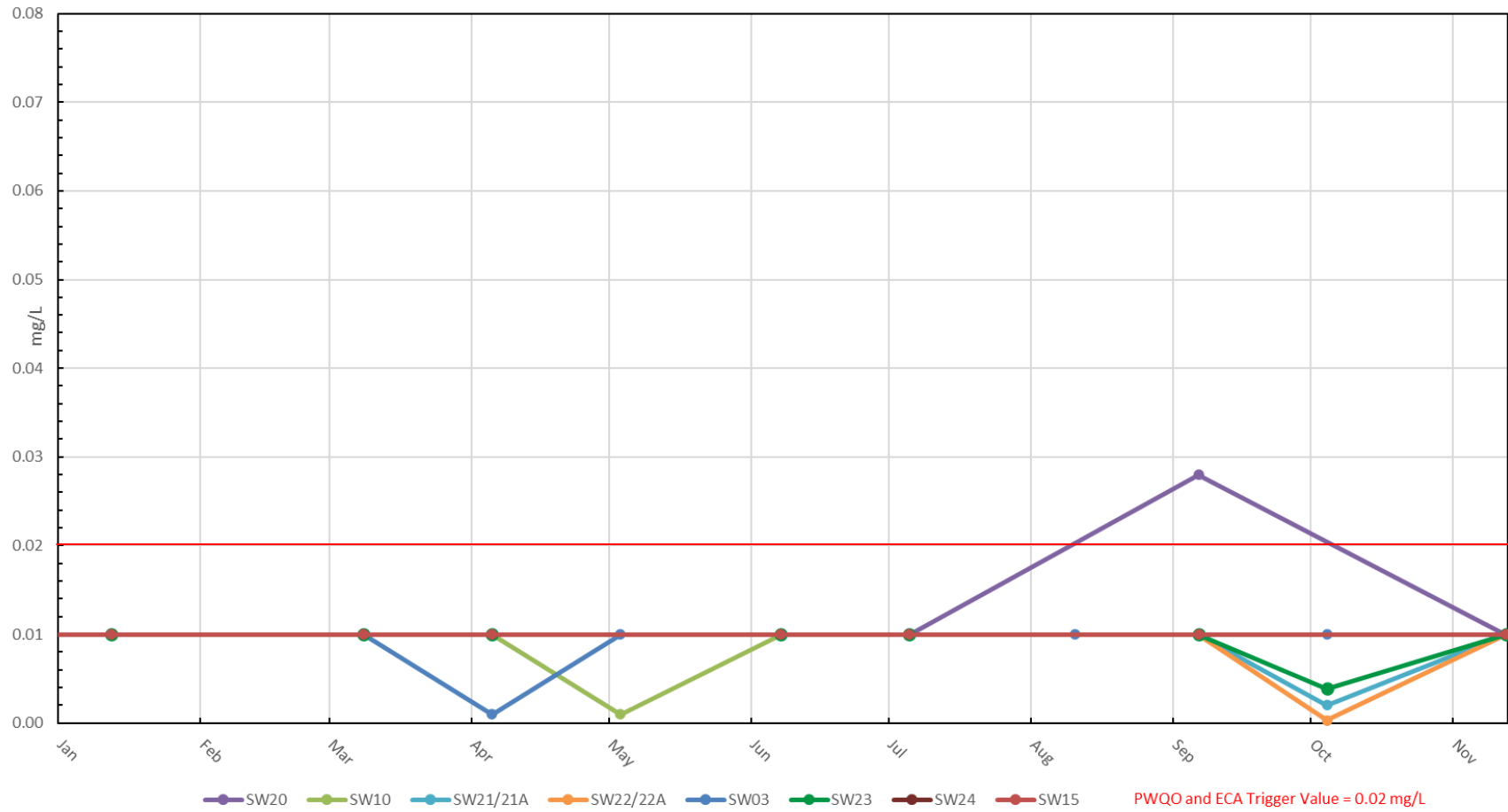


Figure 12a - Rainy River Mine, Free Cyanide in Pinewood River 2018-2022

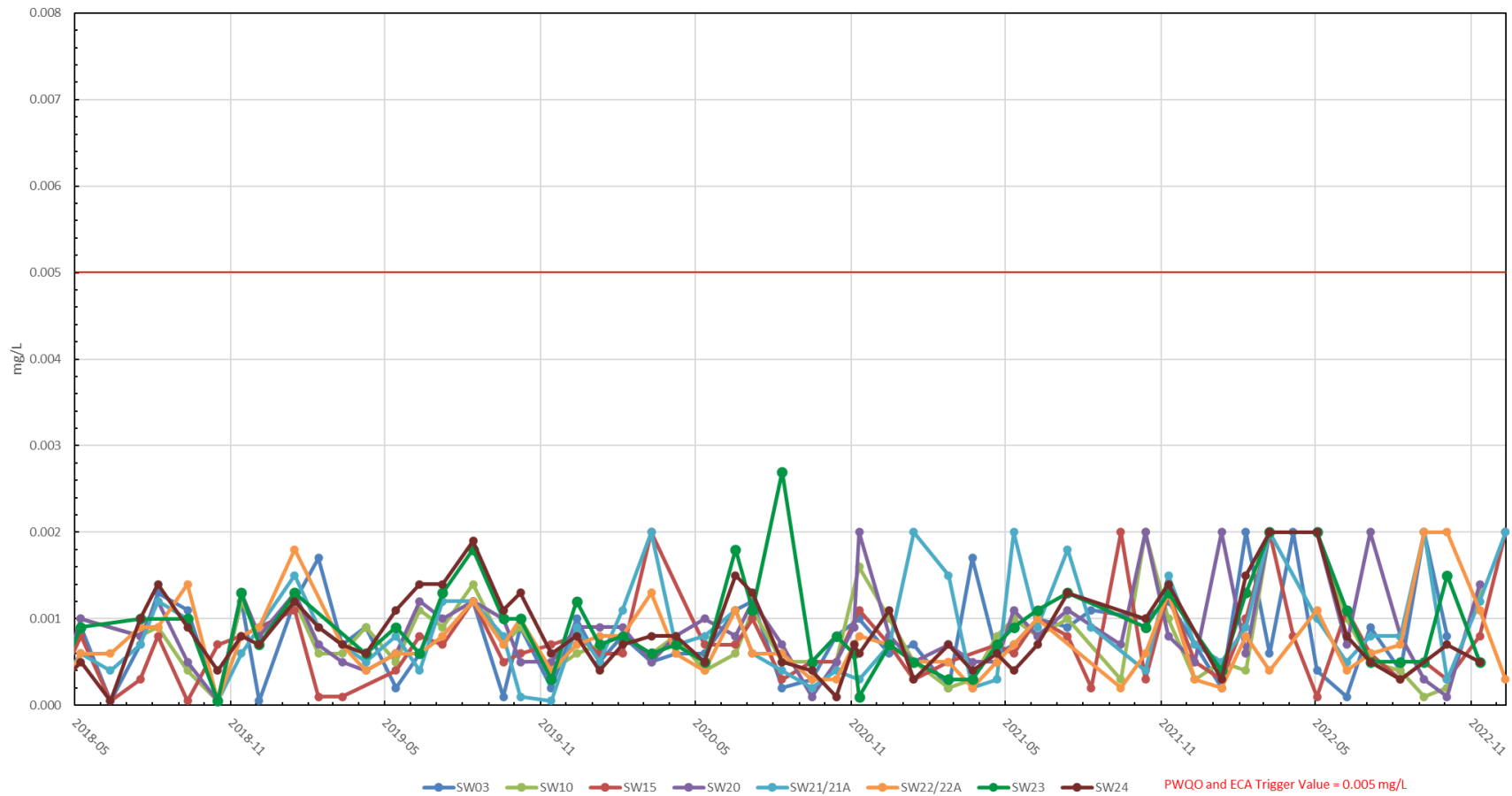


Figure 12b - Rainy River Mine, Free Cyanide in Pinewood River 2022

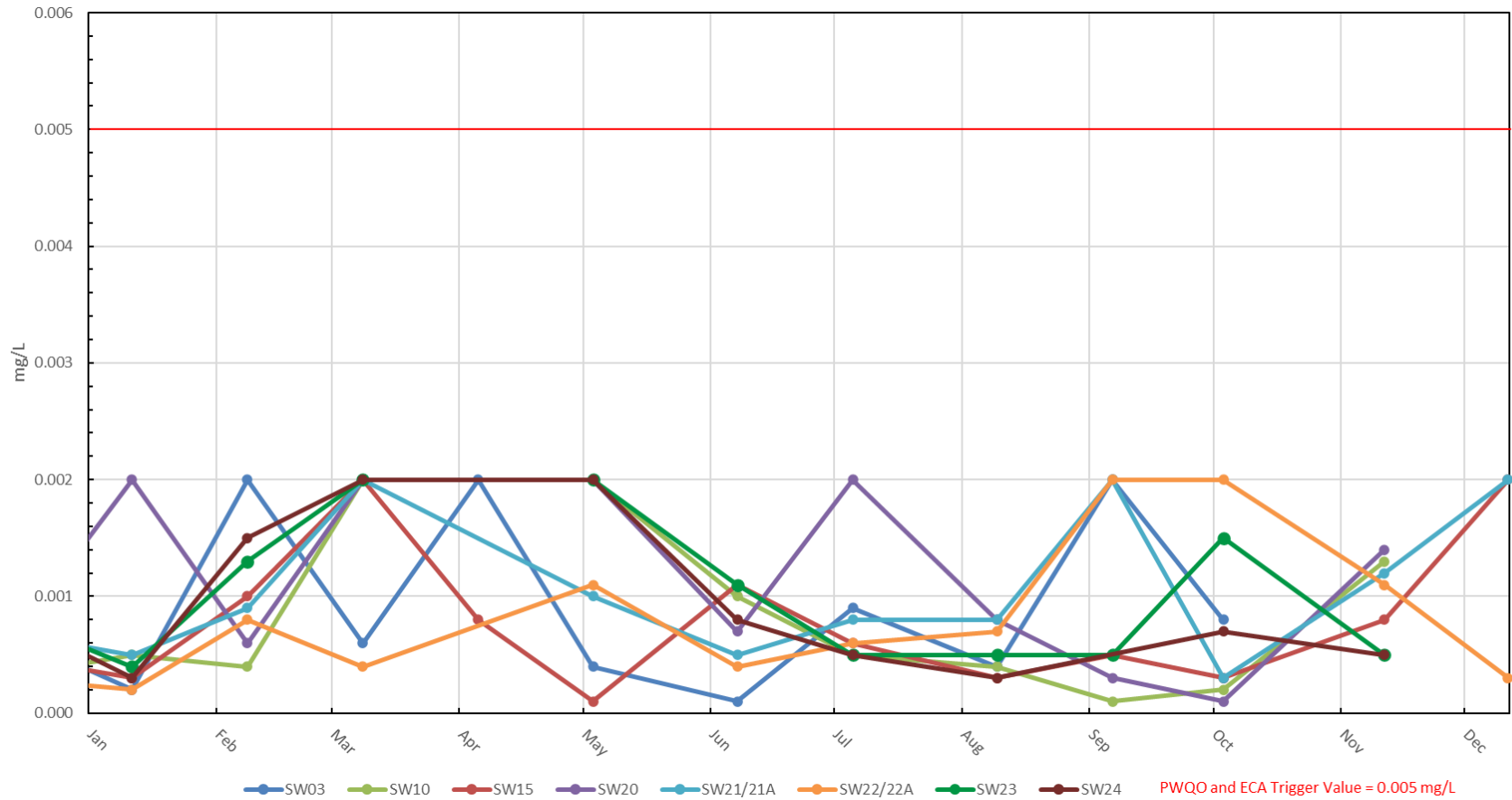


Figure 13a - Rainy River Mine, Field pH levels in Area Creeks 2015-2022

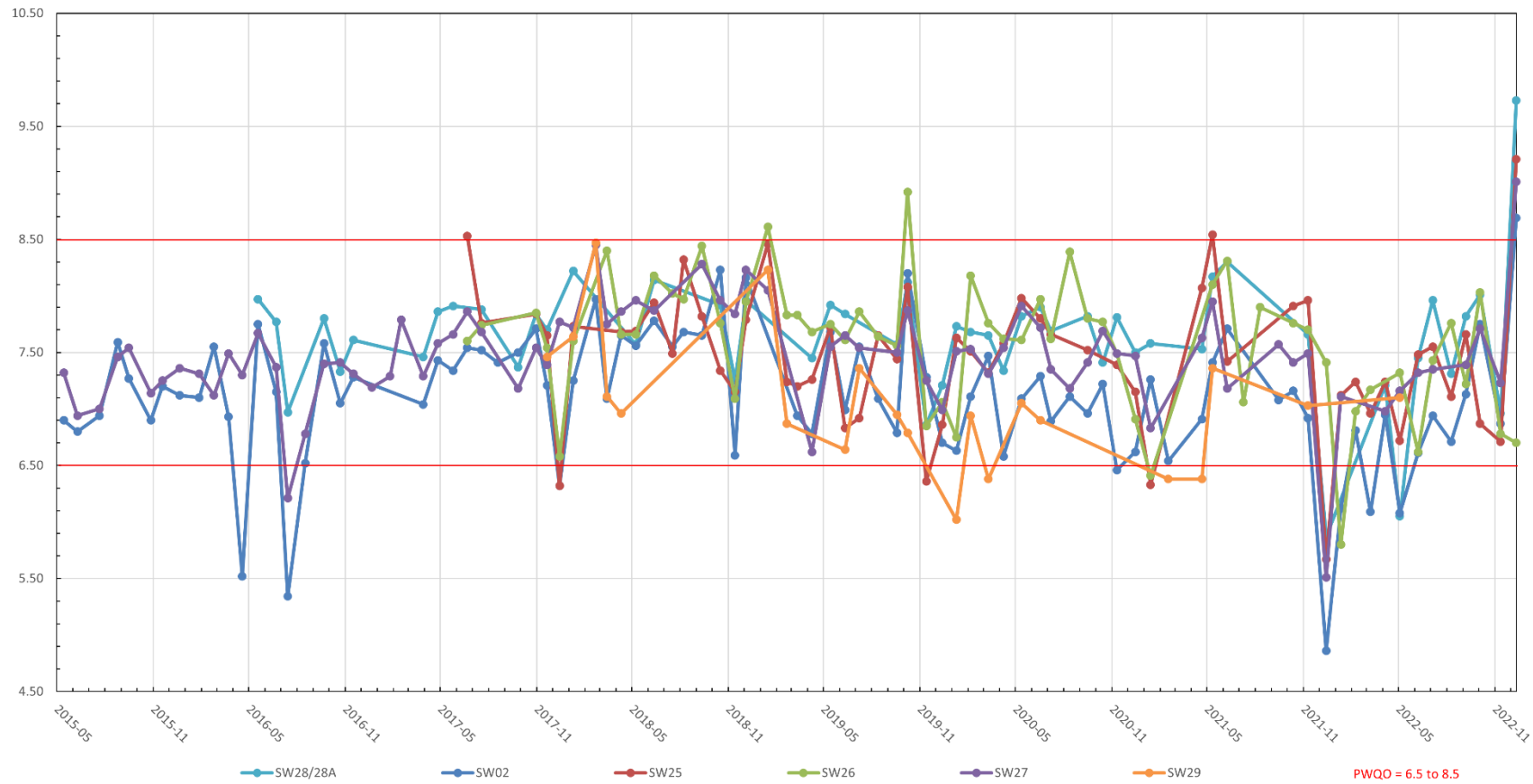


Figure 13b - Rainy River Mine, Field pH levels in Area Creeks 2022

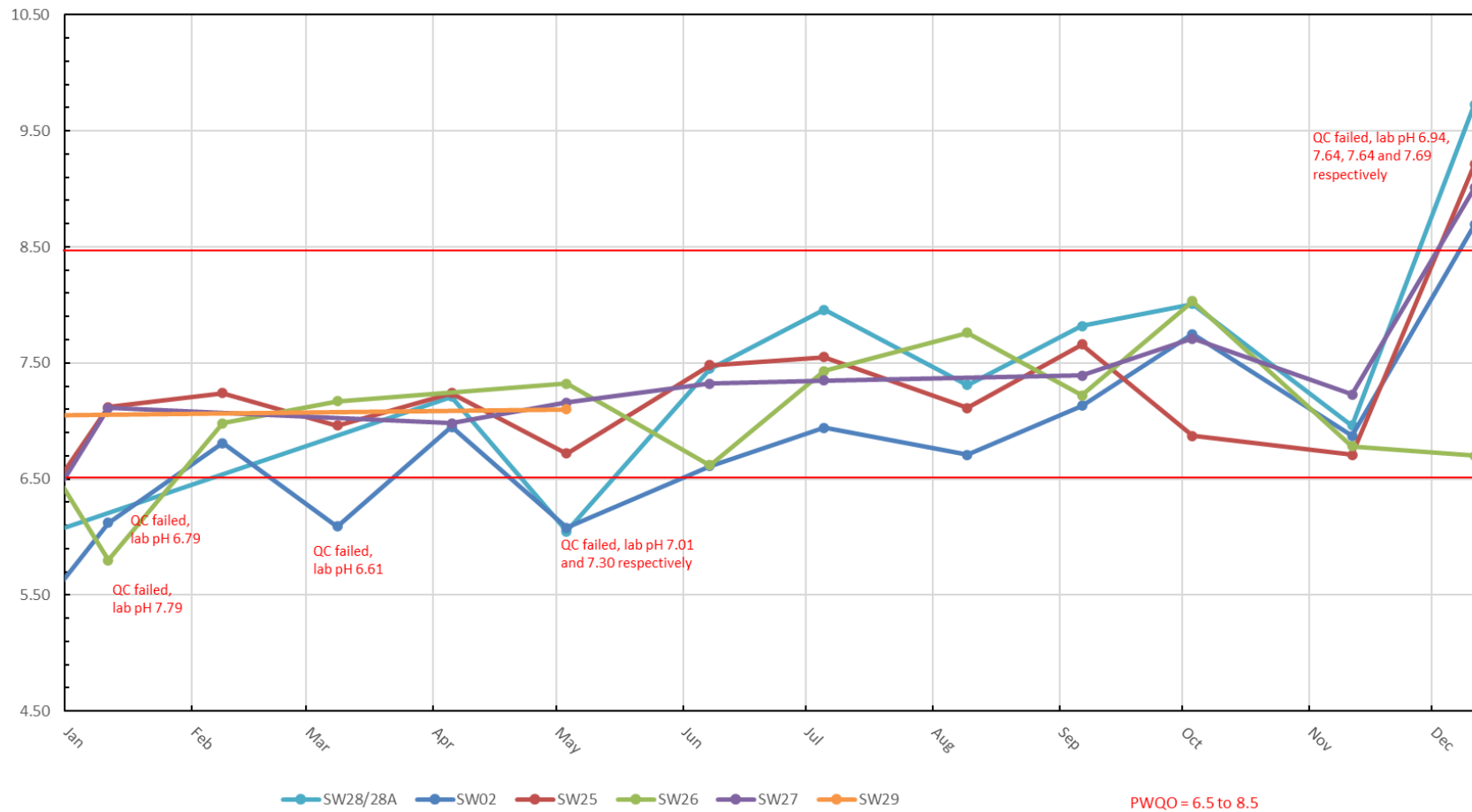


Figure 14a - Rainy River Mine, Total Suspended Solids Concentration in Area Creeks 2015-2022

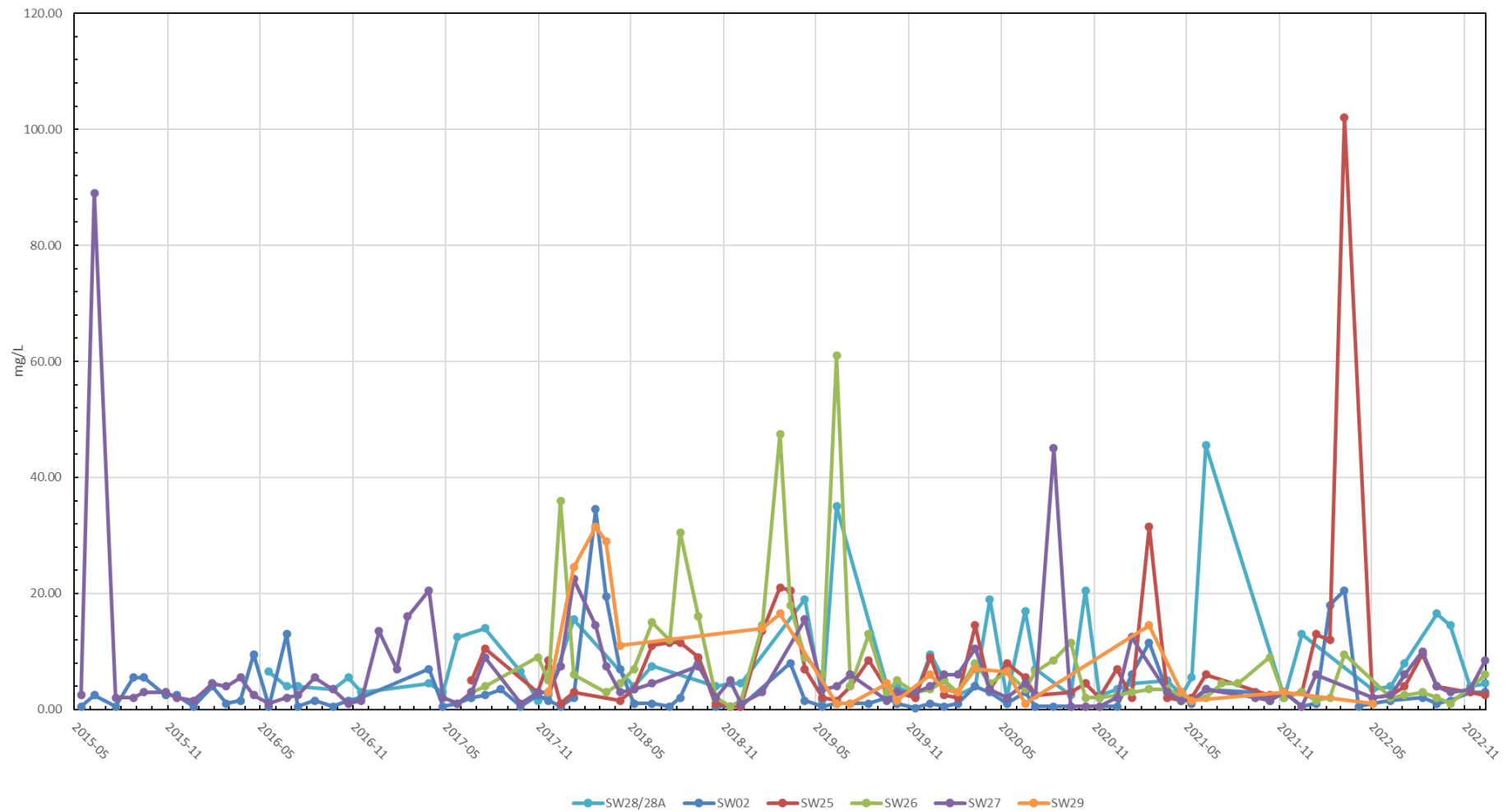


Figure 14b - Rainy River Mine, Total Suspended Solids Concentration in Area Creeks 2022

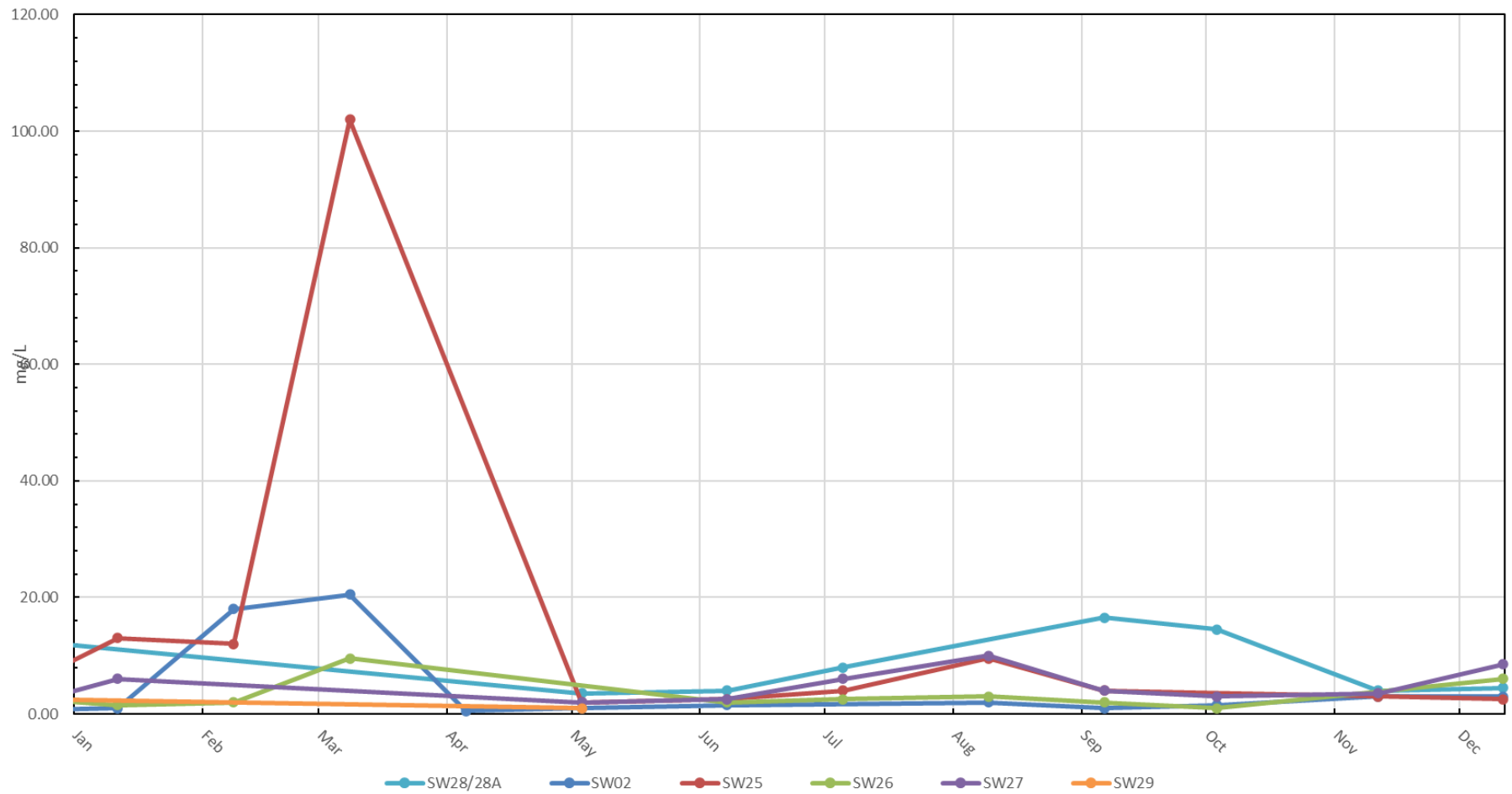




Figure 15a - Rainy River Mine, Total Arsenic in Area Creeks 2015-2022

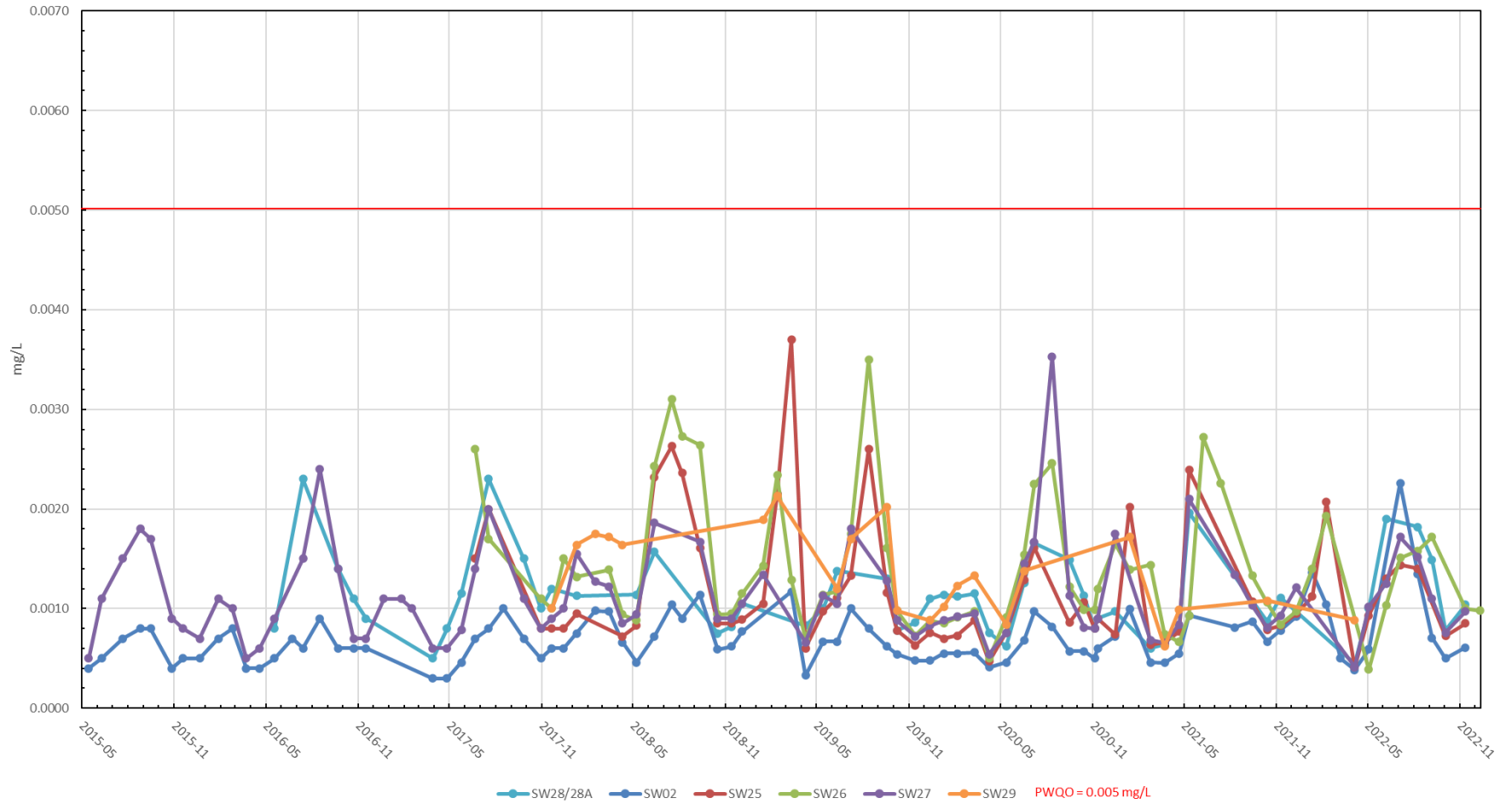


Figure 15b - Rainy River Mine, Total Arsenic in Area Creeks 2022

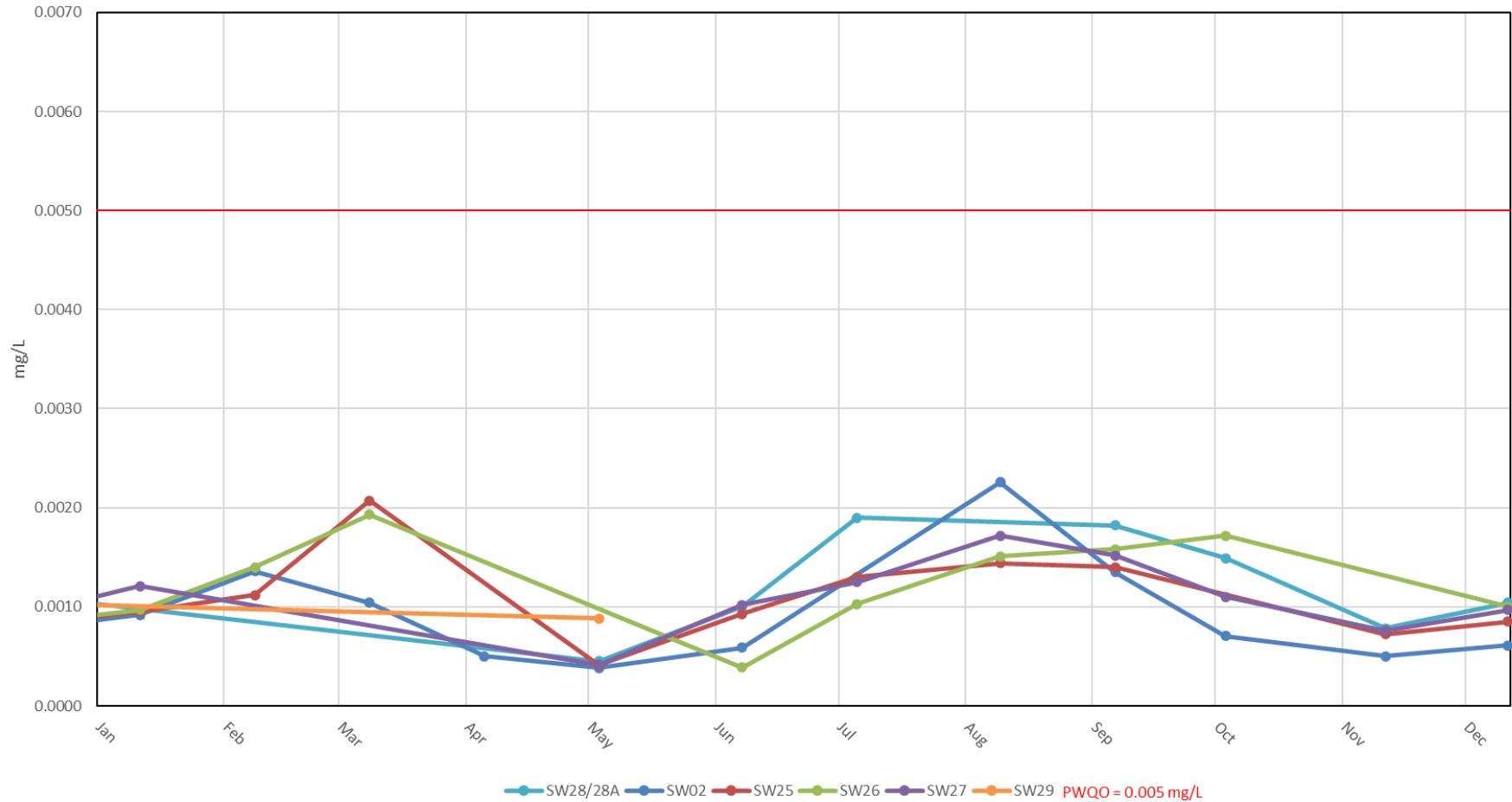


Figure 16a- Rainy River Mine, Total Copper in Area Creeks 2015-2022

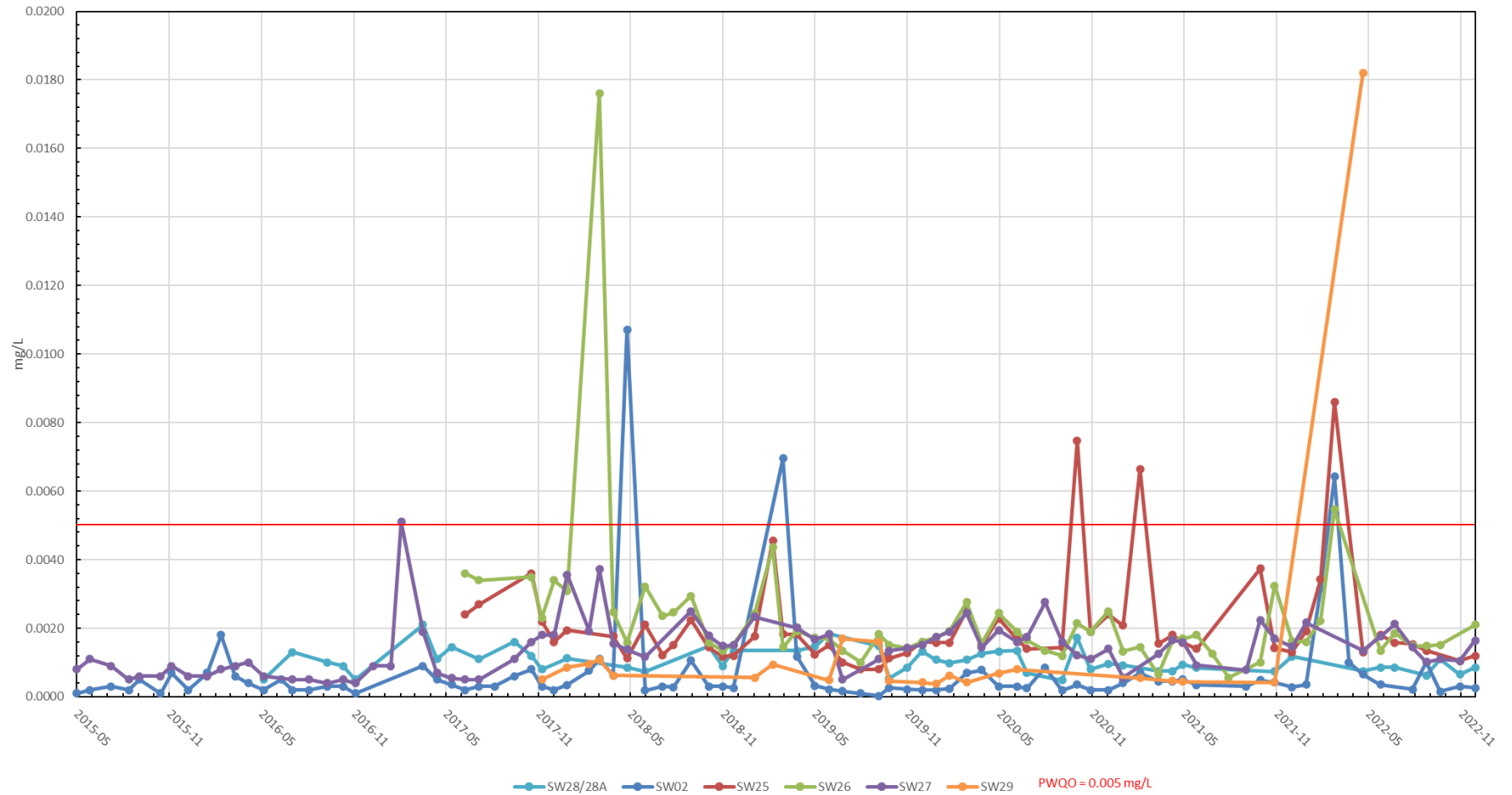


Figure 16b - Rainy River Mine, Total Copper in Area Creeks 2022

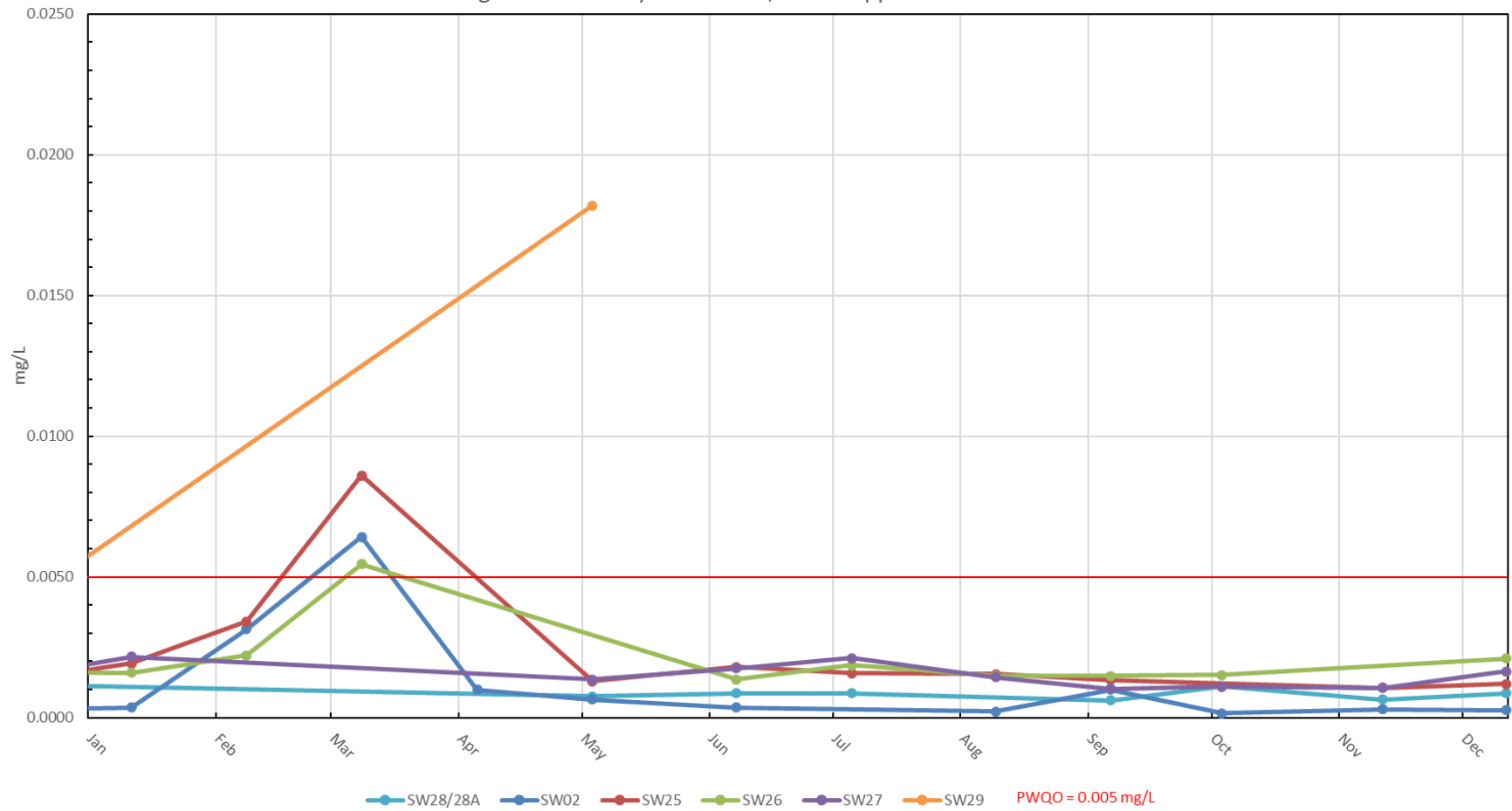


Figure 17a - Rainy River Mine, Total Lead in Area Creeks 2015-2022

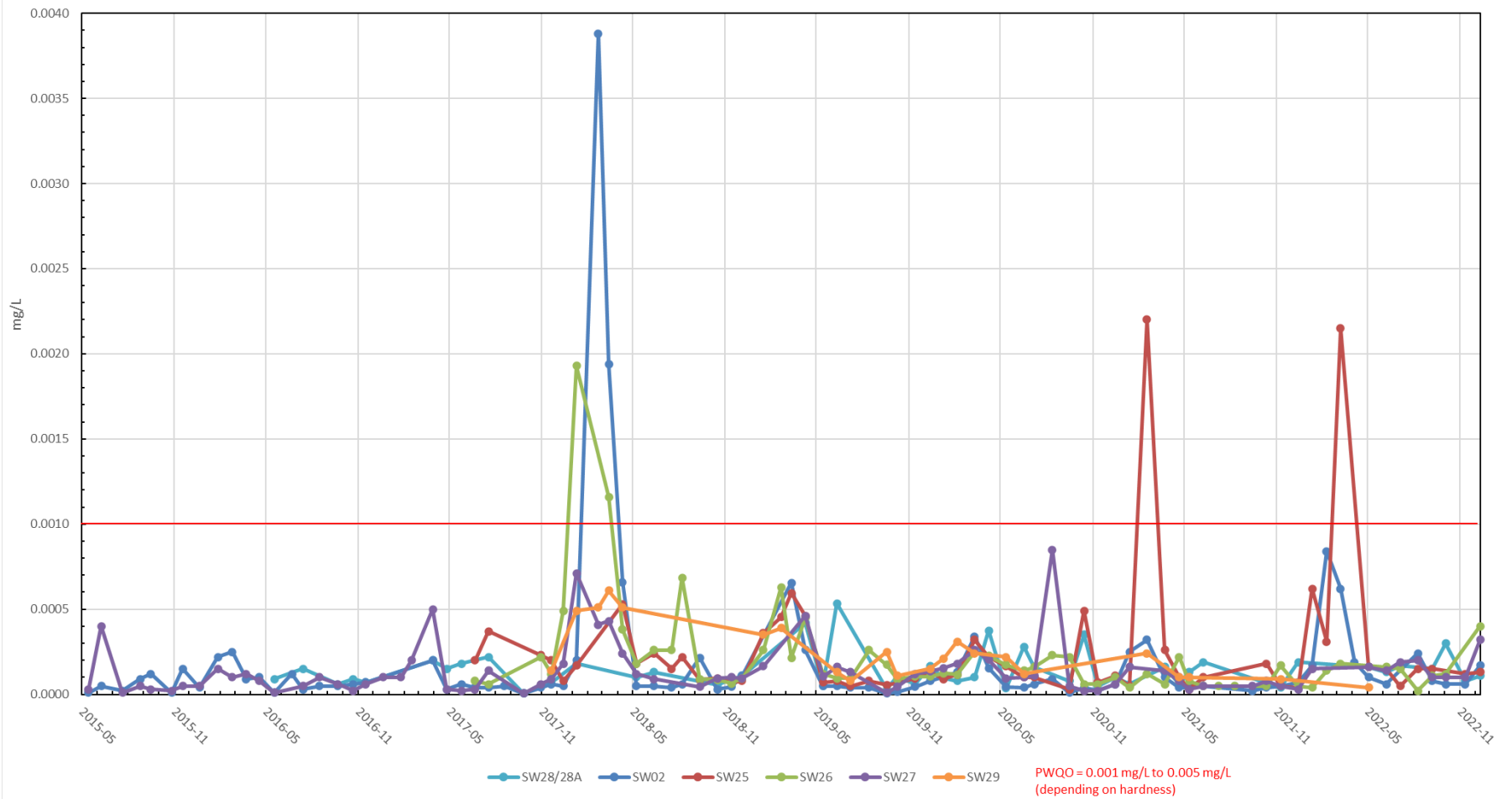


Figure 17b - Rainy River Mine, Total Lead in Area Creeks 2022

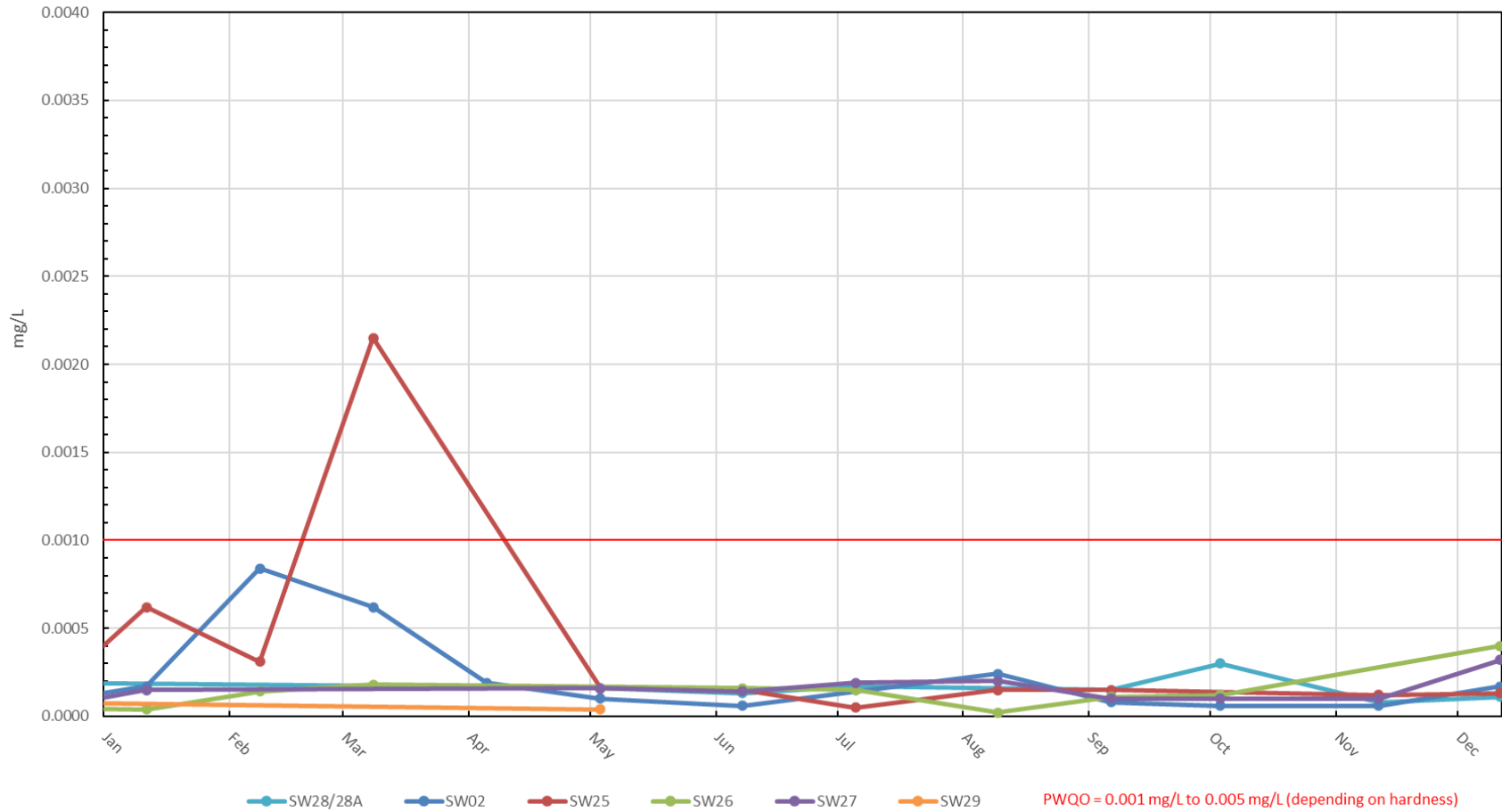


Figure 18a - Rainy River Mine, Total Nickel in Area Creeks 2015-2022

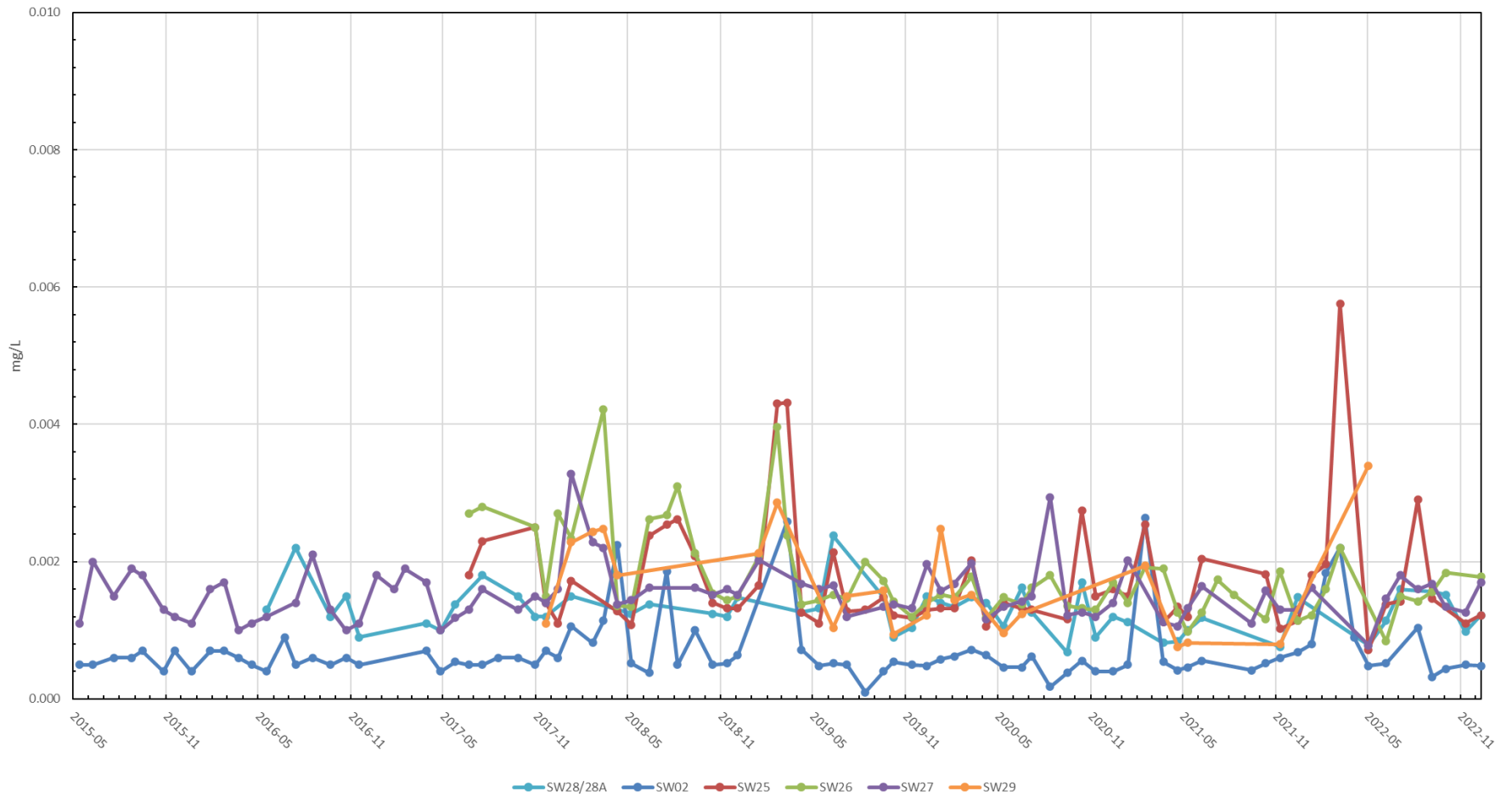


Figure 18b - Rainy River Mine, Total Nickel in Area Creeks 2022

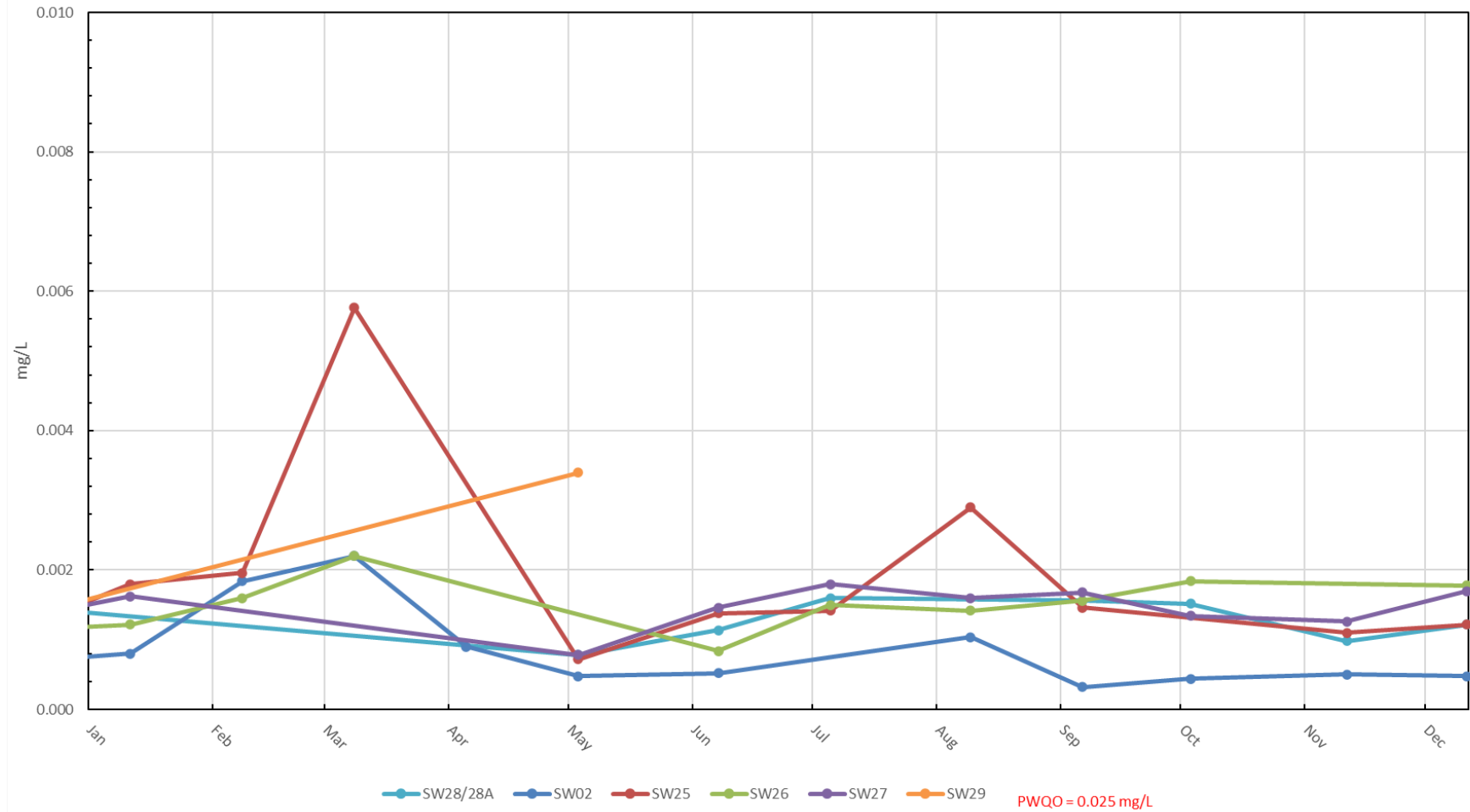




Figure 19a - Rainy River Mine, Total Phosphorus in Area Creeks 2017-2022

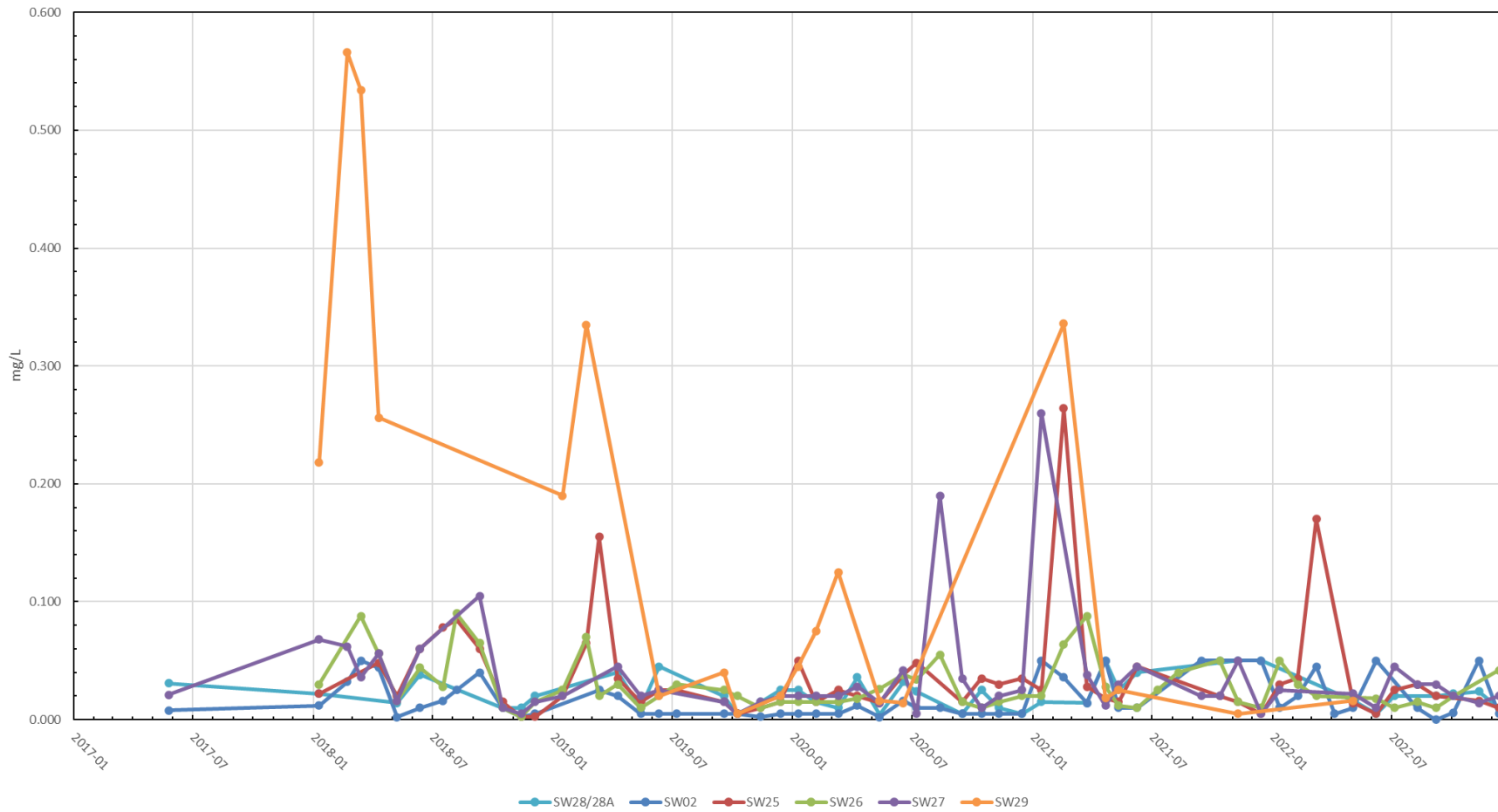


Figure 19b - Rainy River Mine, Total Phosphorus in Area Creeks 2022

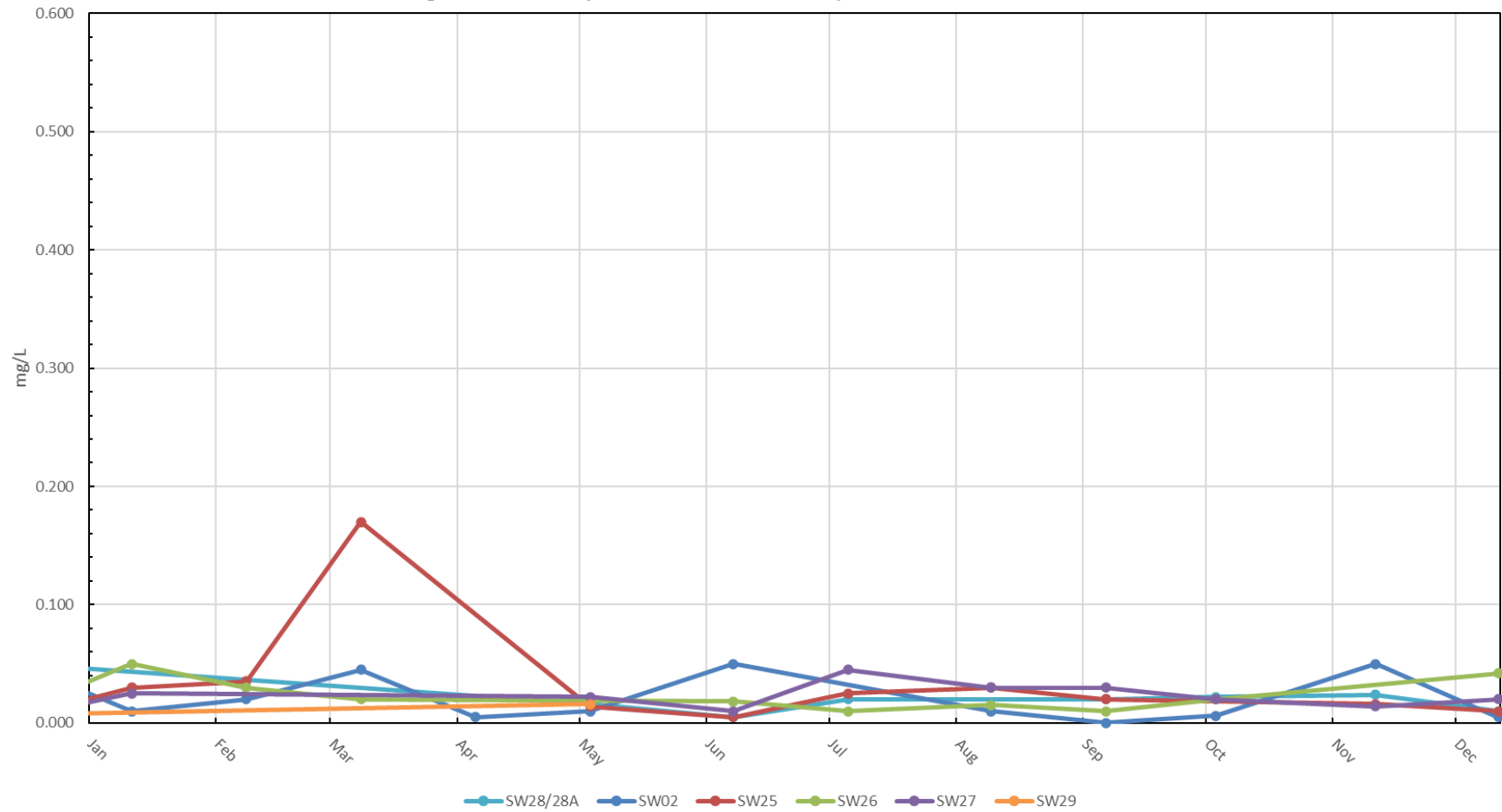


Figure 20a - Rainy River Mine, Total Zinc in Area Creeks 2015-2022

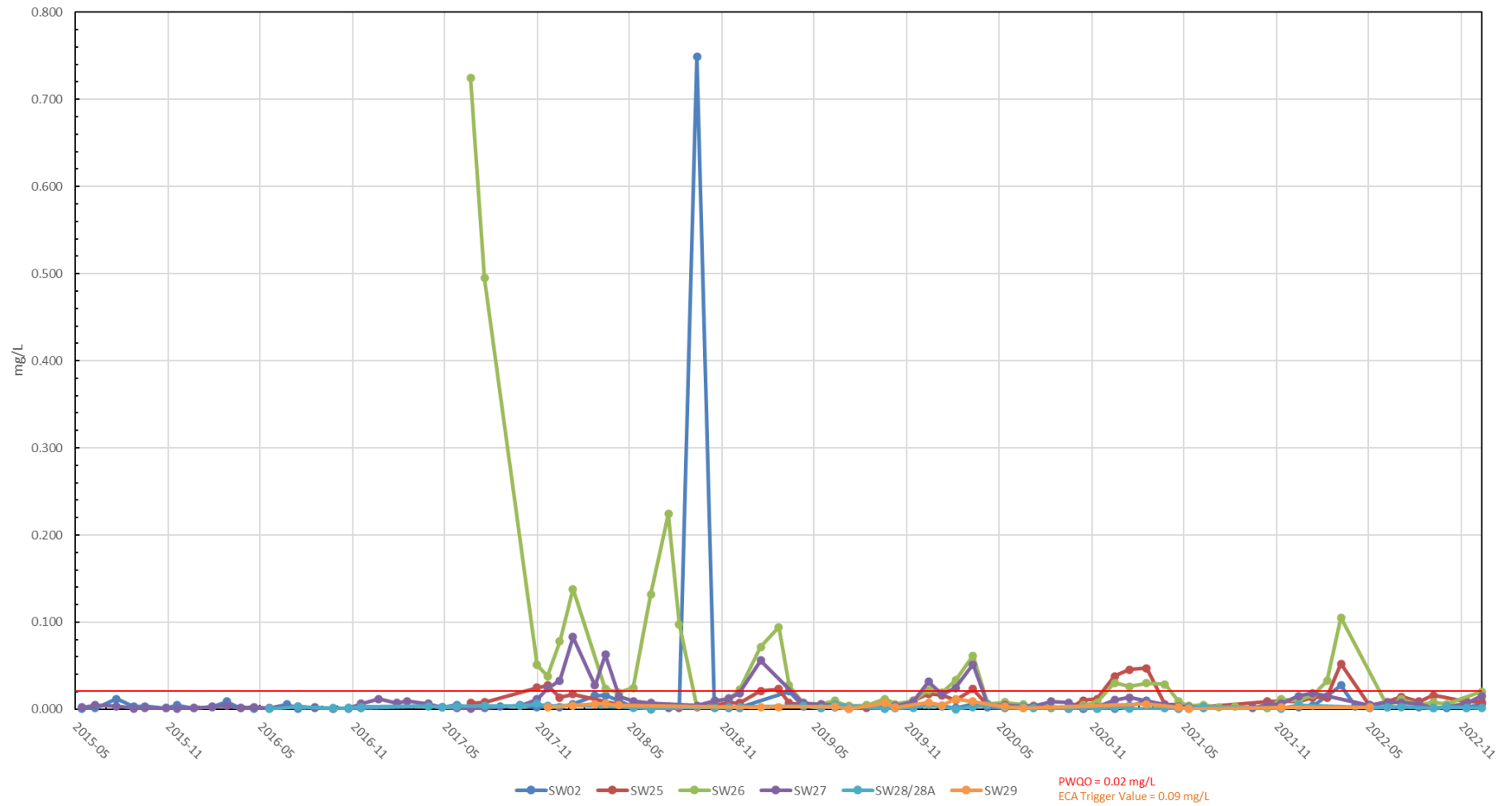


Figure 20b - Rainy River Mine, Total Zinc in Area Creeks 2022

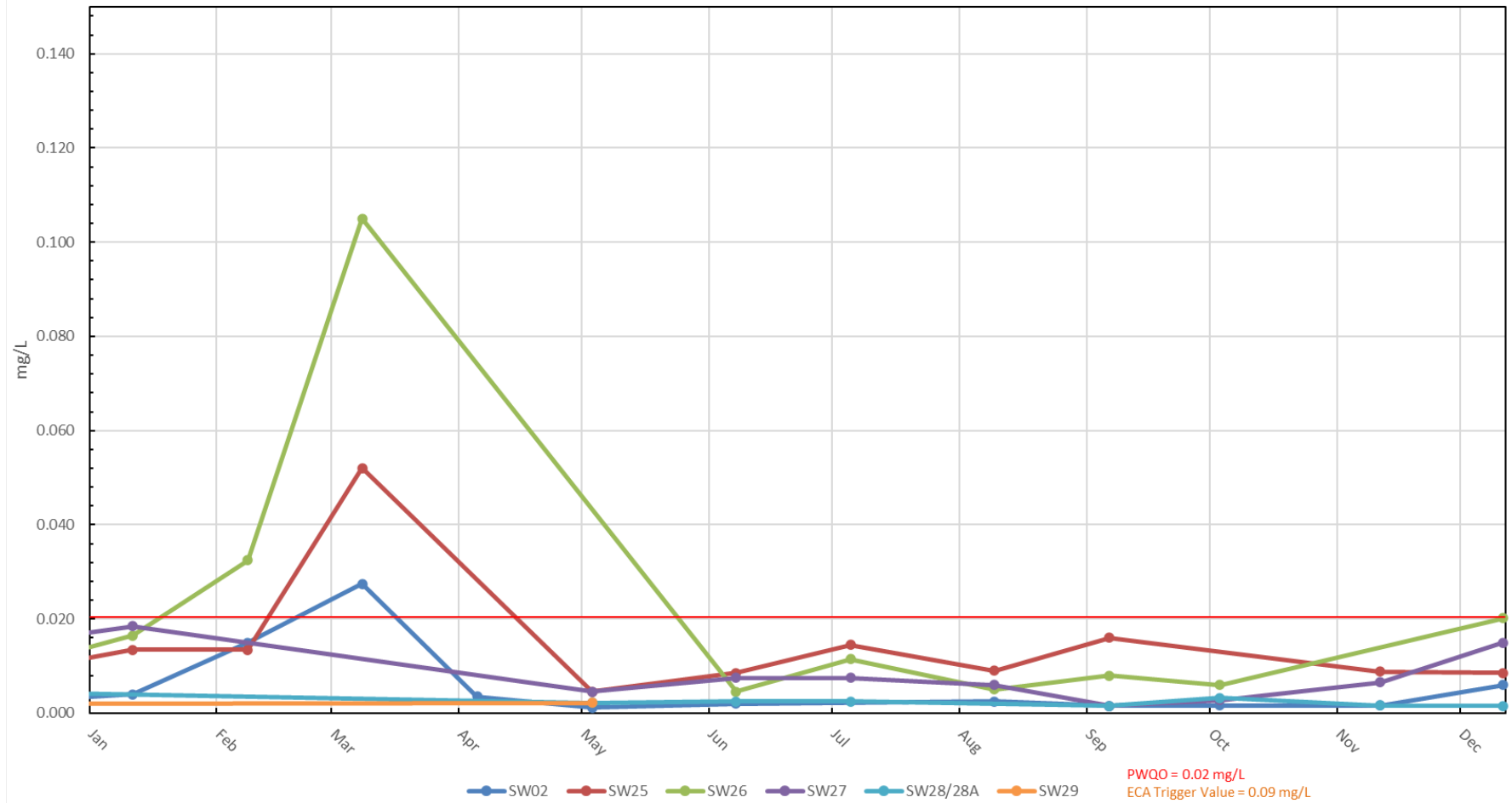


Figure 21a - Rainy River Mine, Total Mercury in Area Creeks 2015-2022

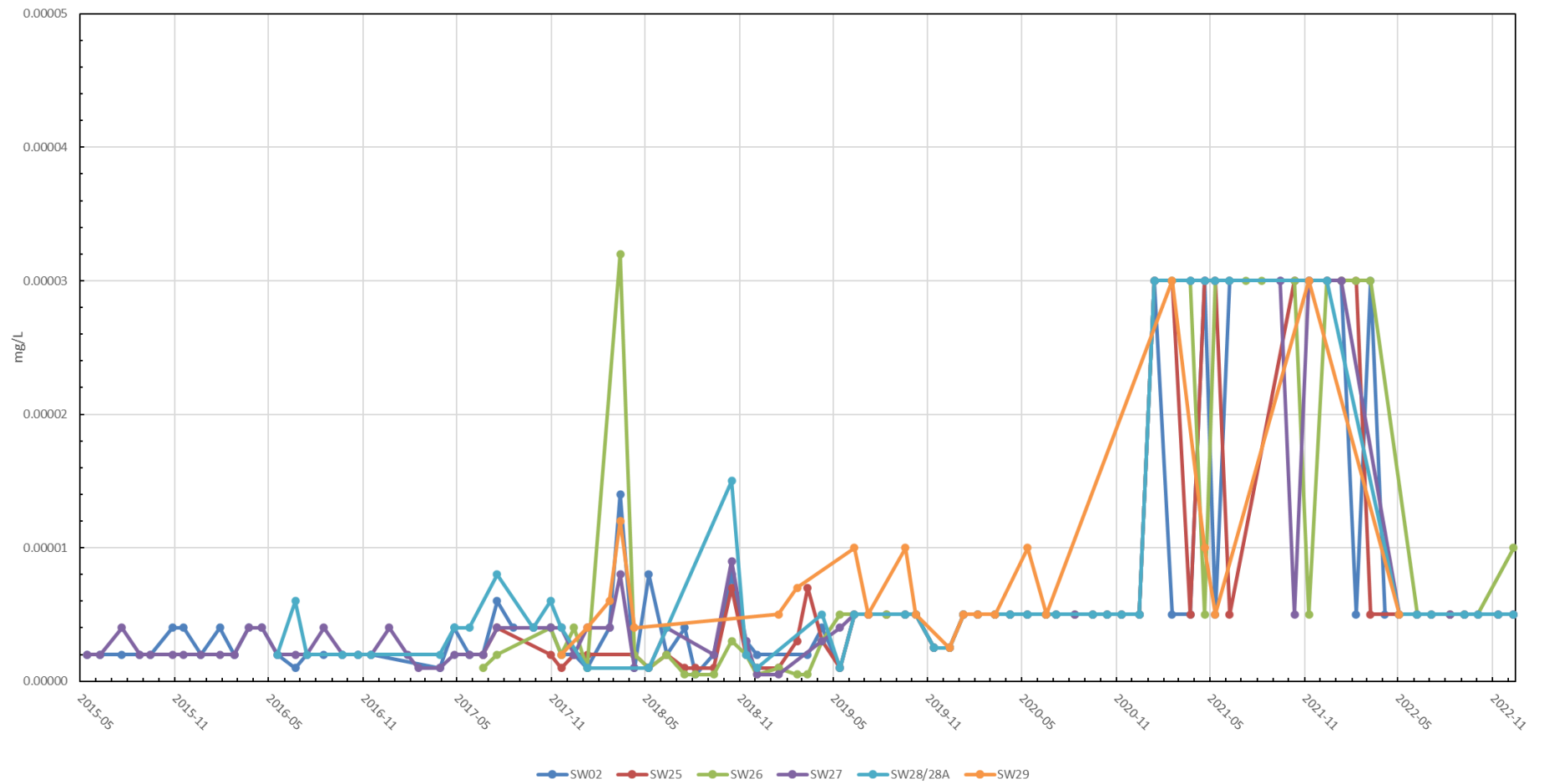


Figure 21b - Rainy River Mine, Total Mercury in Area Creeks 2022

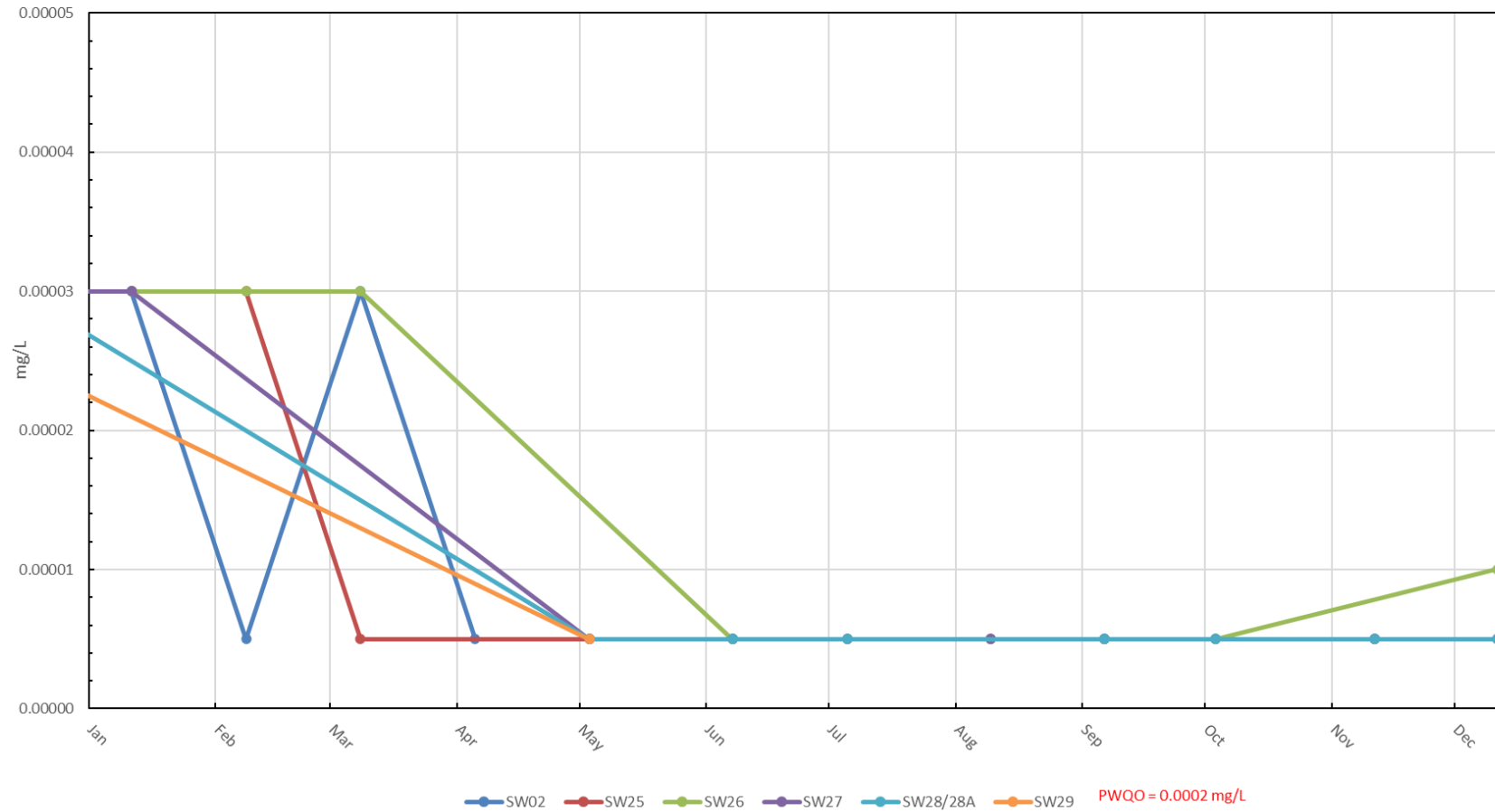


Figure 22a - Rainy River Mine, Un-ionized Ammonia in Area Creeks 2015-2022

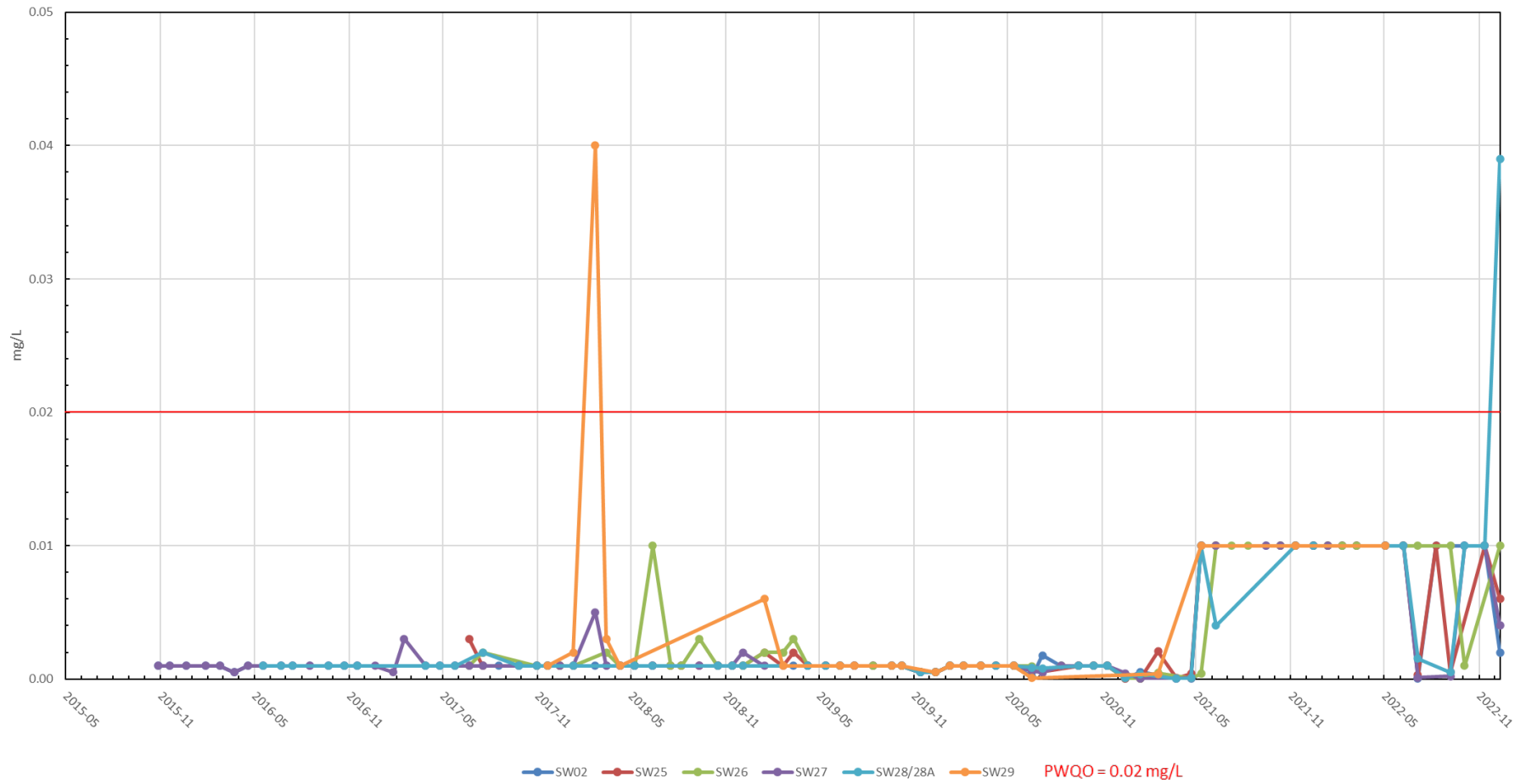


Figure 22b - Rainy River Mine, Un-ionized Ammonia in Area Creeks 2022

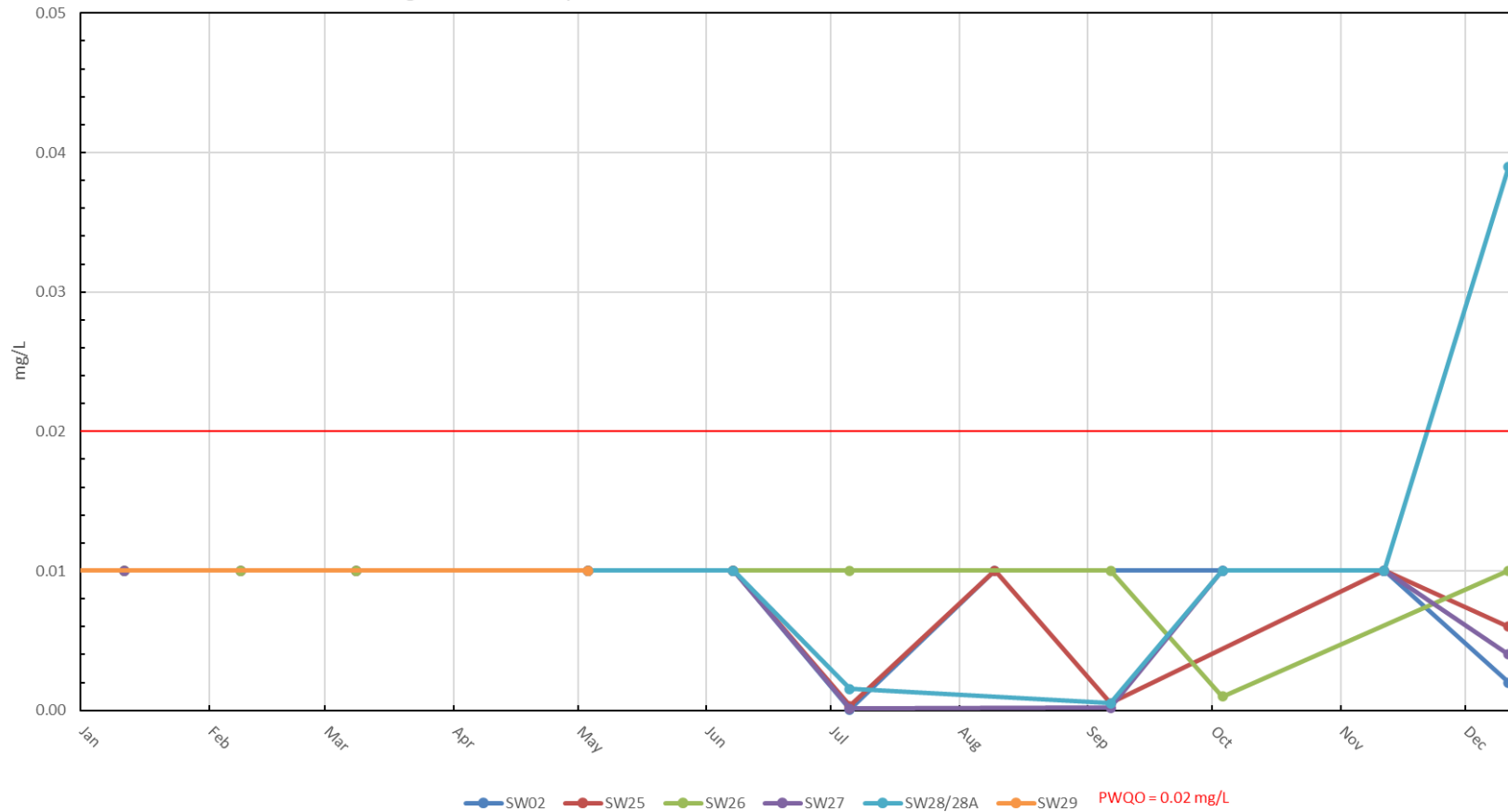




Figure 23a - Rainy River Mine, Free Cyanide in Area Creeks 2018-2022

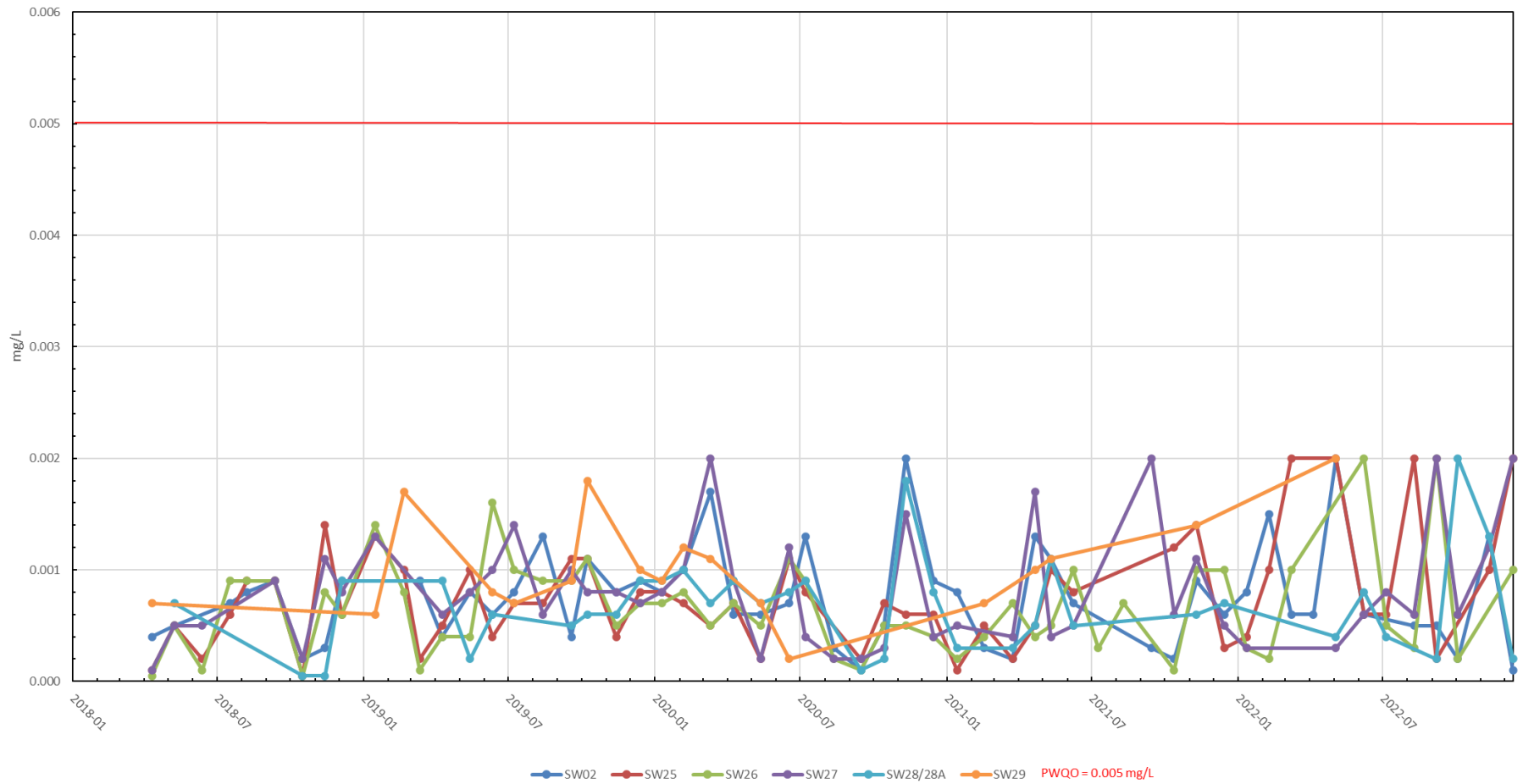


Figure 23b - Rainy River Mine, Free Cyanide in Area Creeks 2022

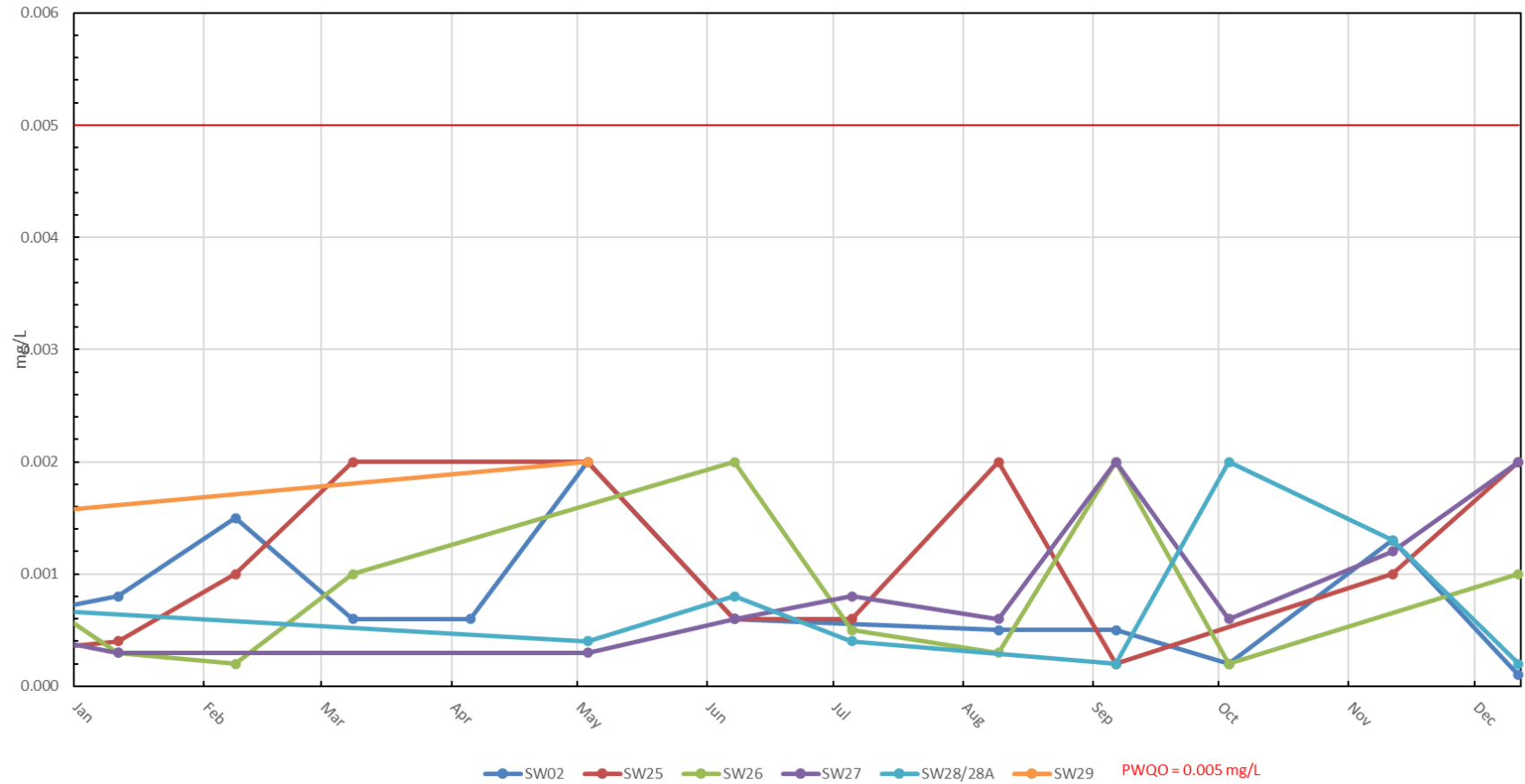


Figure 24a - Rainy River Mine, Field pH Levels in Rainy River 2015-2022

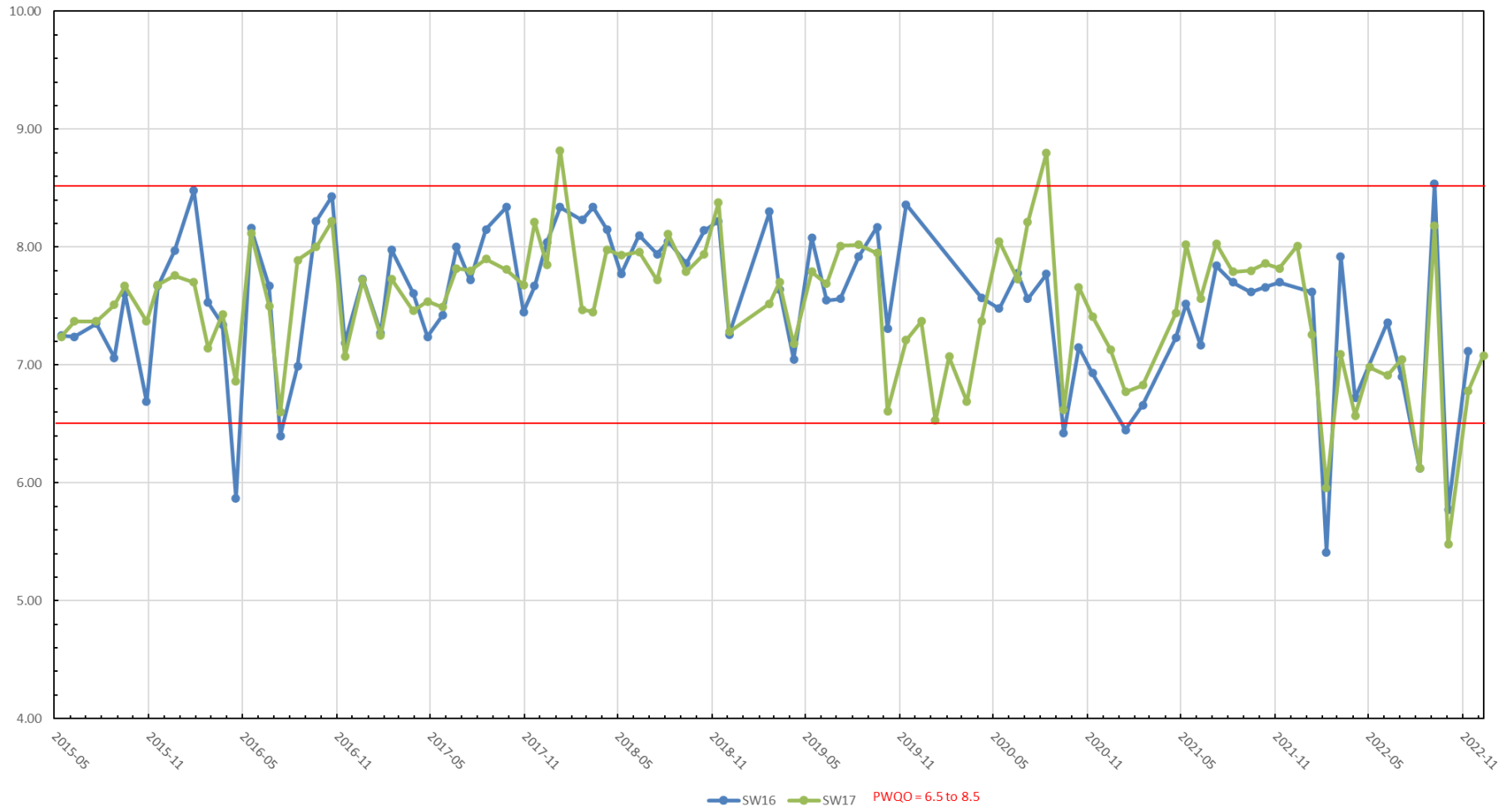


Figure 24b - Rainy River Mine, Field pH Levels in Rainy River 2022

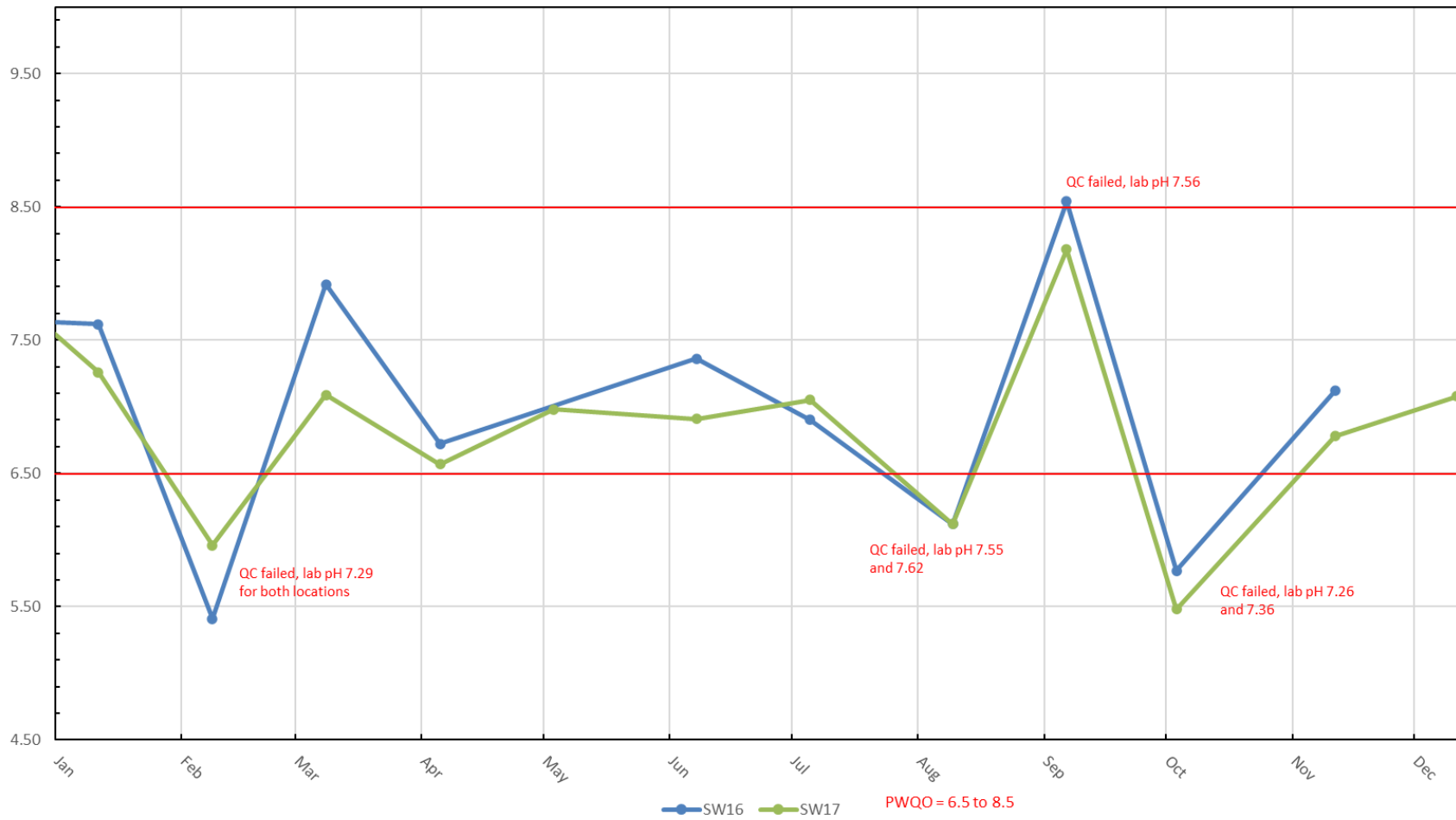


Figure 25a - Rainy River Mine, Total Suspended Solids Concentration in Rainy River 2015-2022

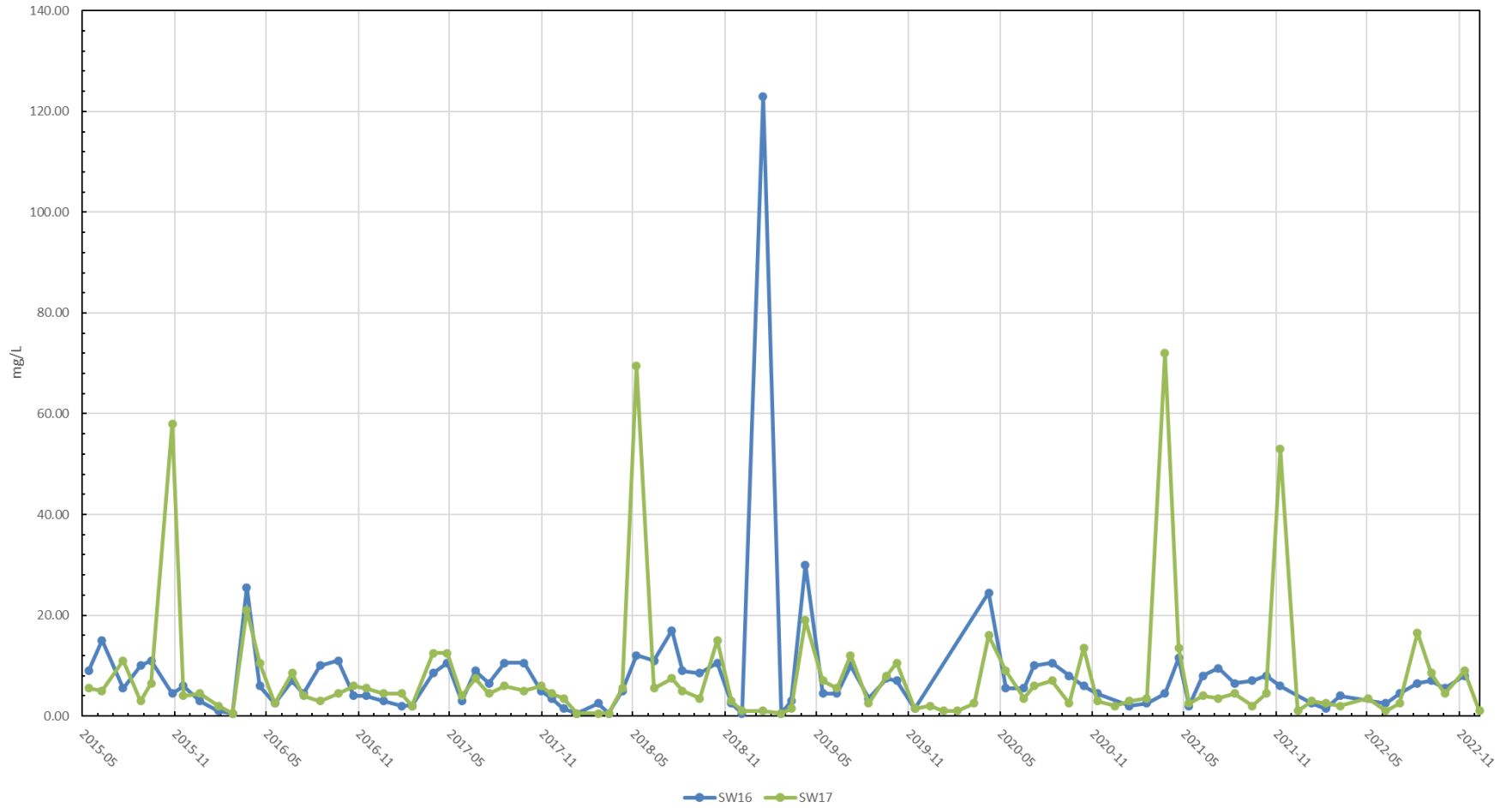


Figure 25b - Rainy River Mine, Total Suspended Solids Concentration in Rainy River 2022

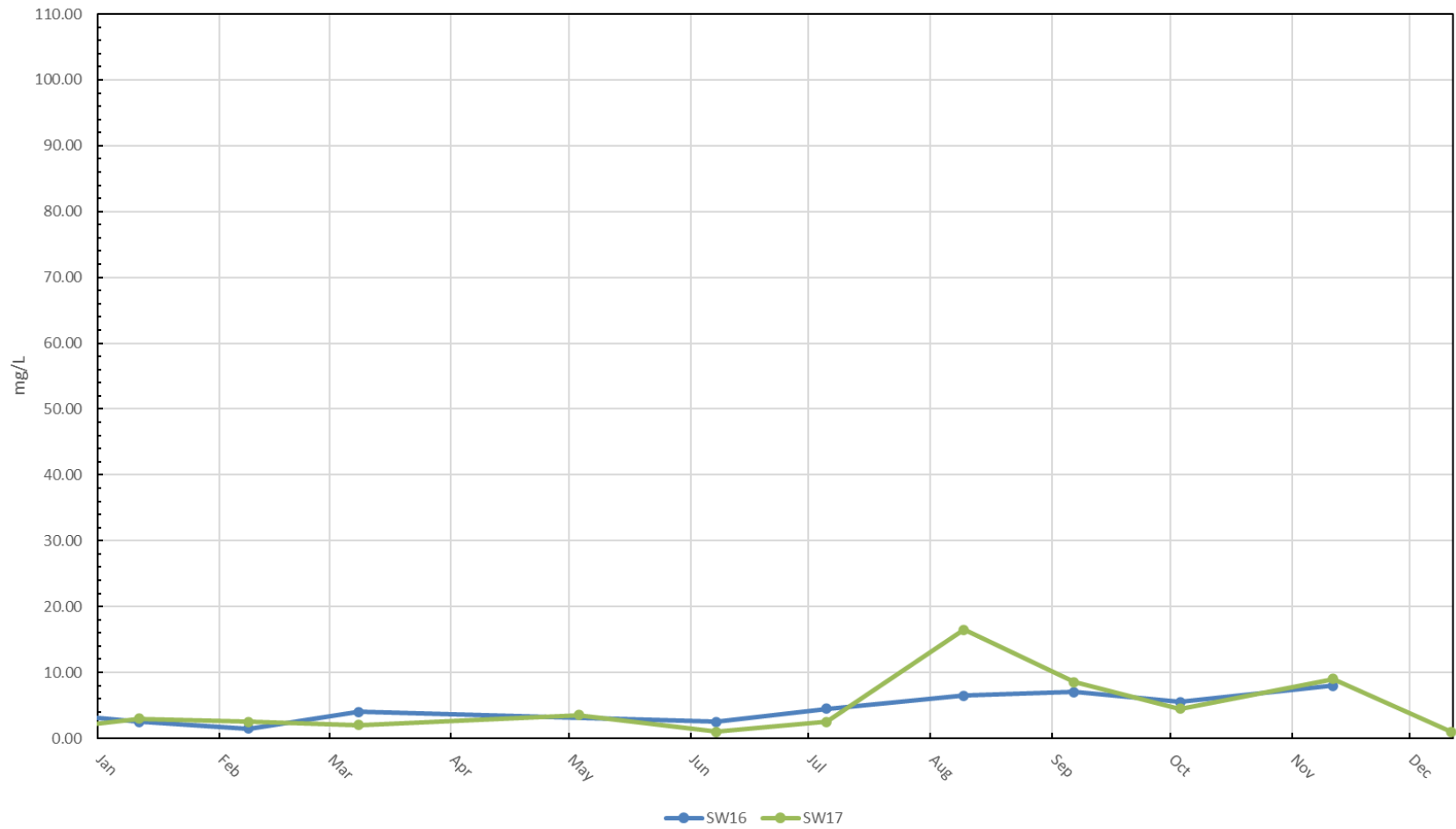


Figure 26a - Rainy River Mine, Total Arsenic in Rainy River 2015-2022

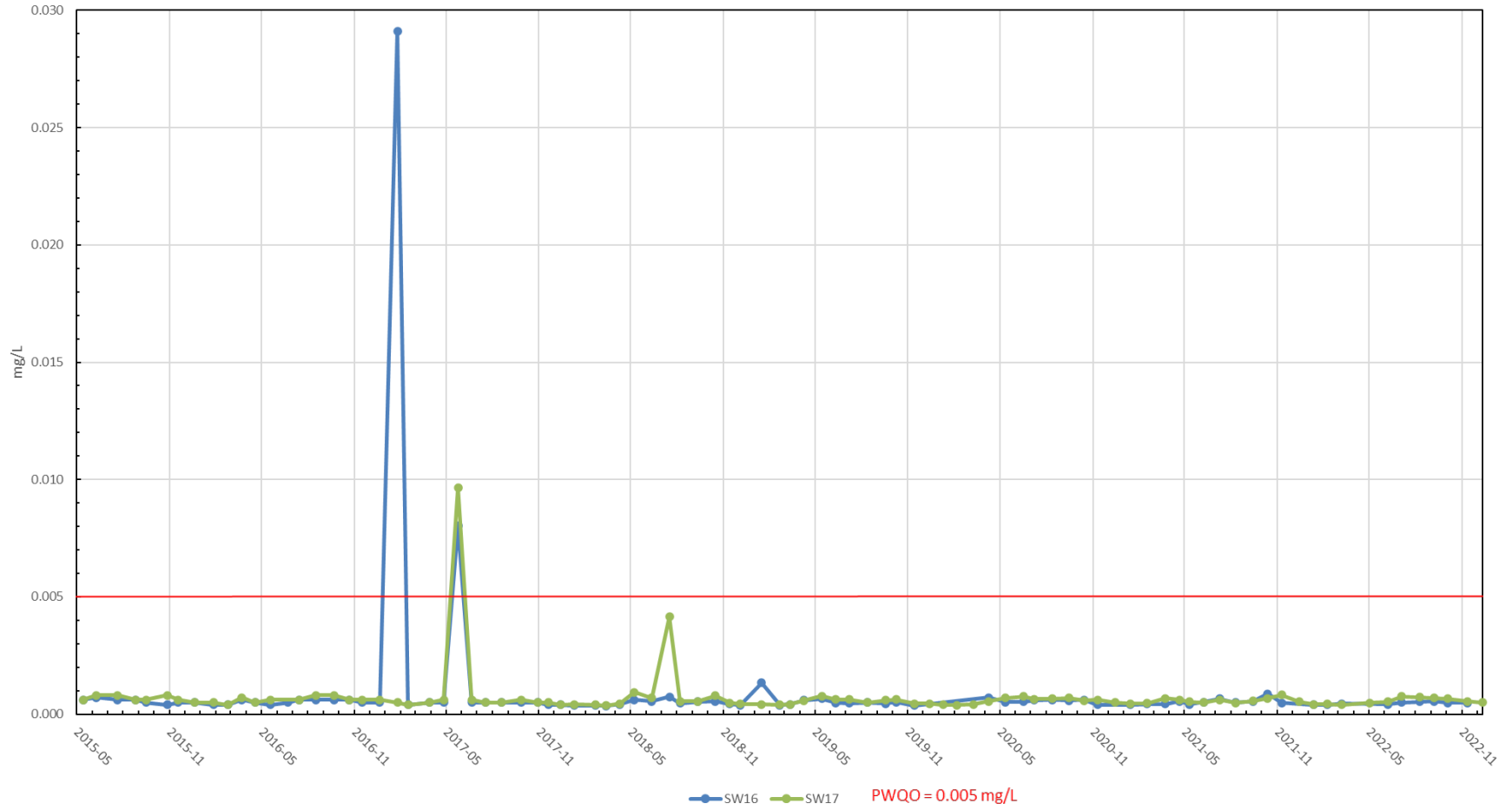


Figure 26b - Rainy River Mine, Total Arsenic in Rainy River 2022

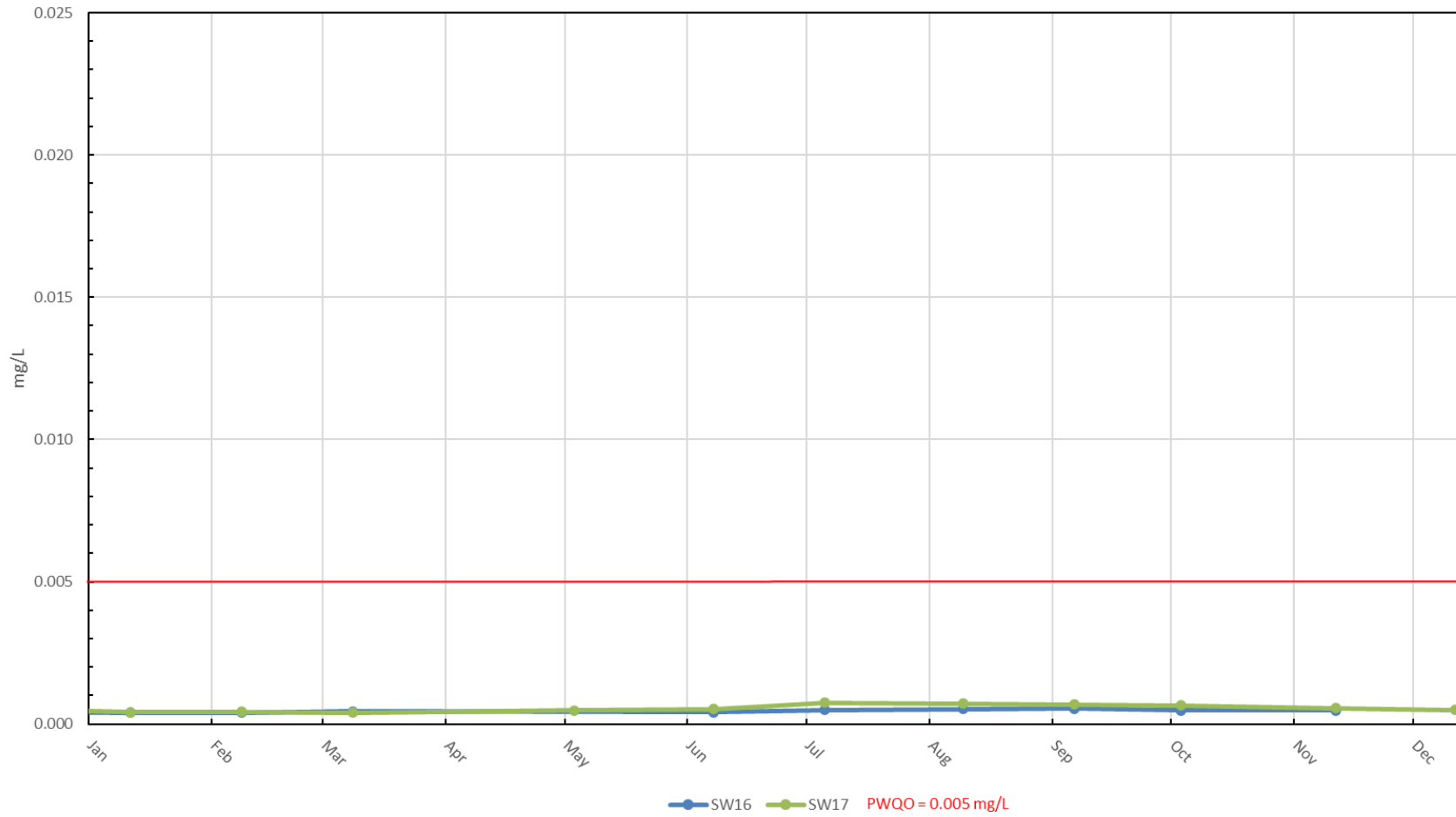




Figure 27a - Rainy River Mine, Total Copper in Rainy River 2015-2022

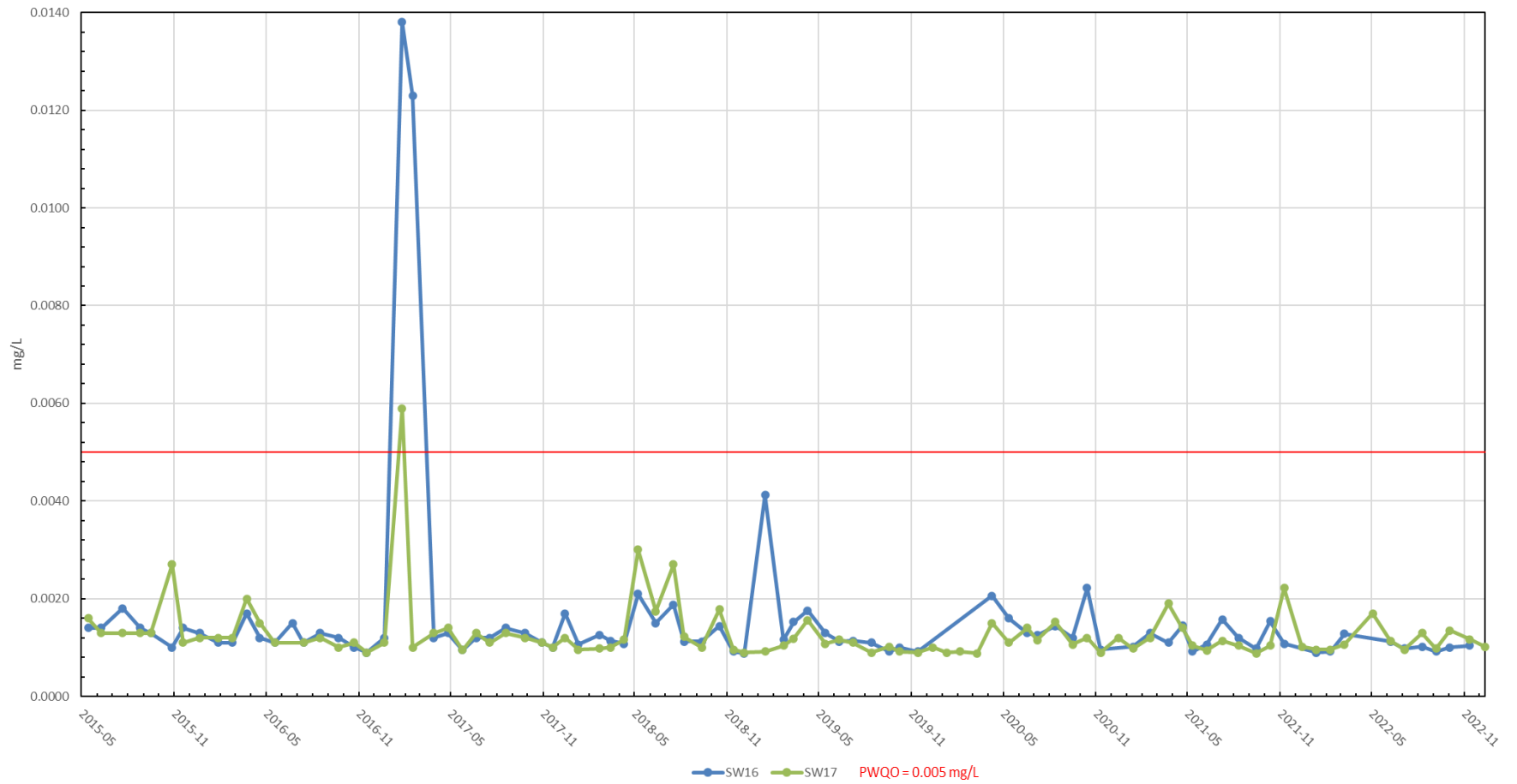


Figure 27b - Rainy River Mine, Total Copper in Rainy River 2022

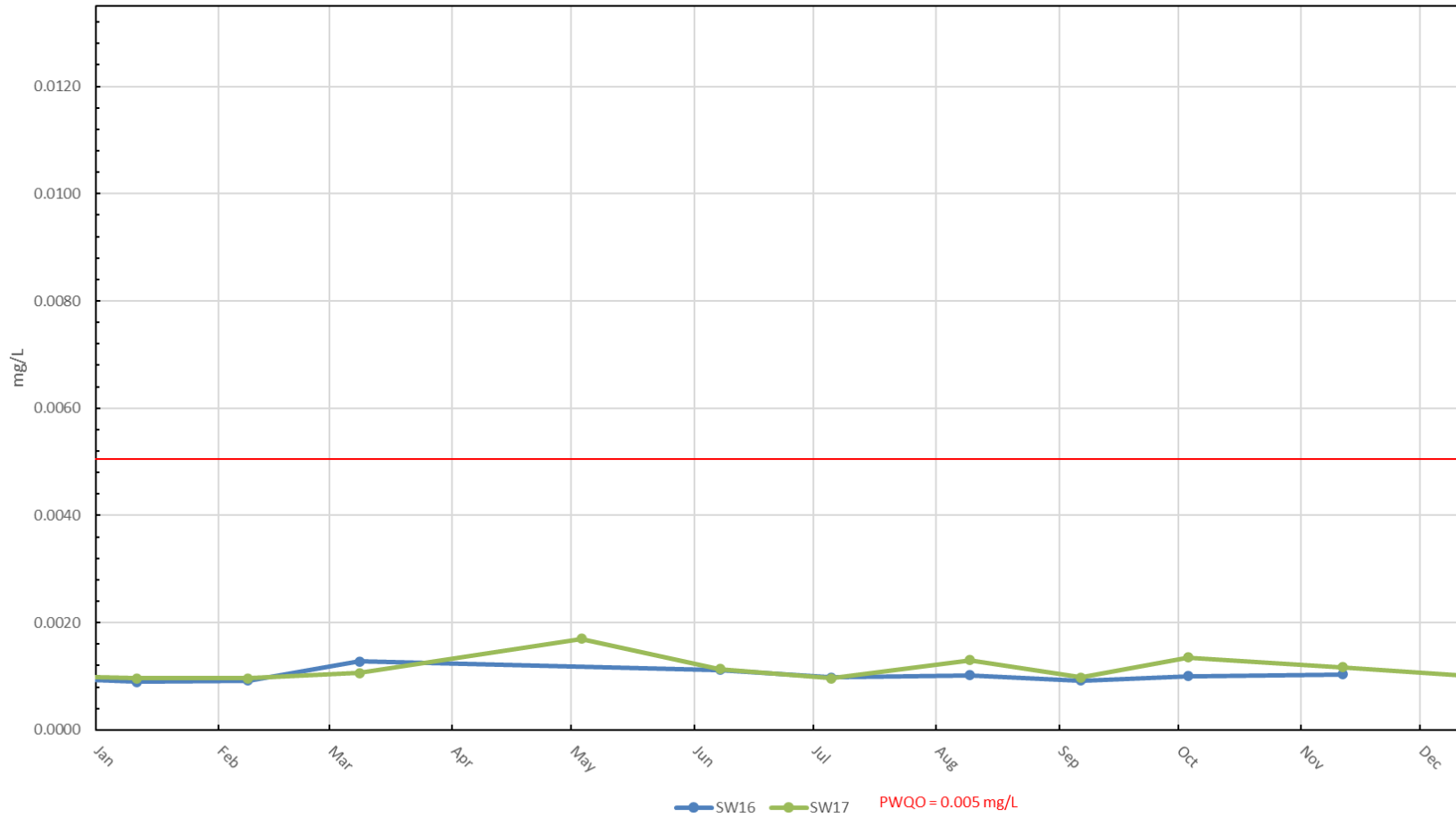


Figure 28a - Rainy River Mine, Total Lead in Rainy River 2015-2022

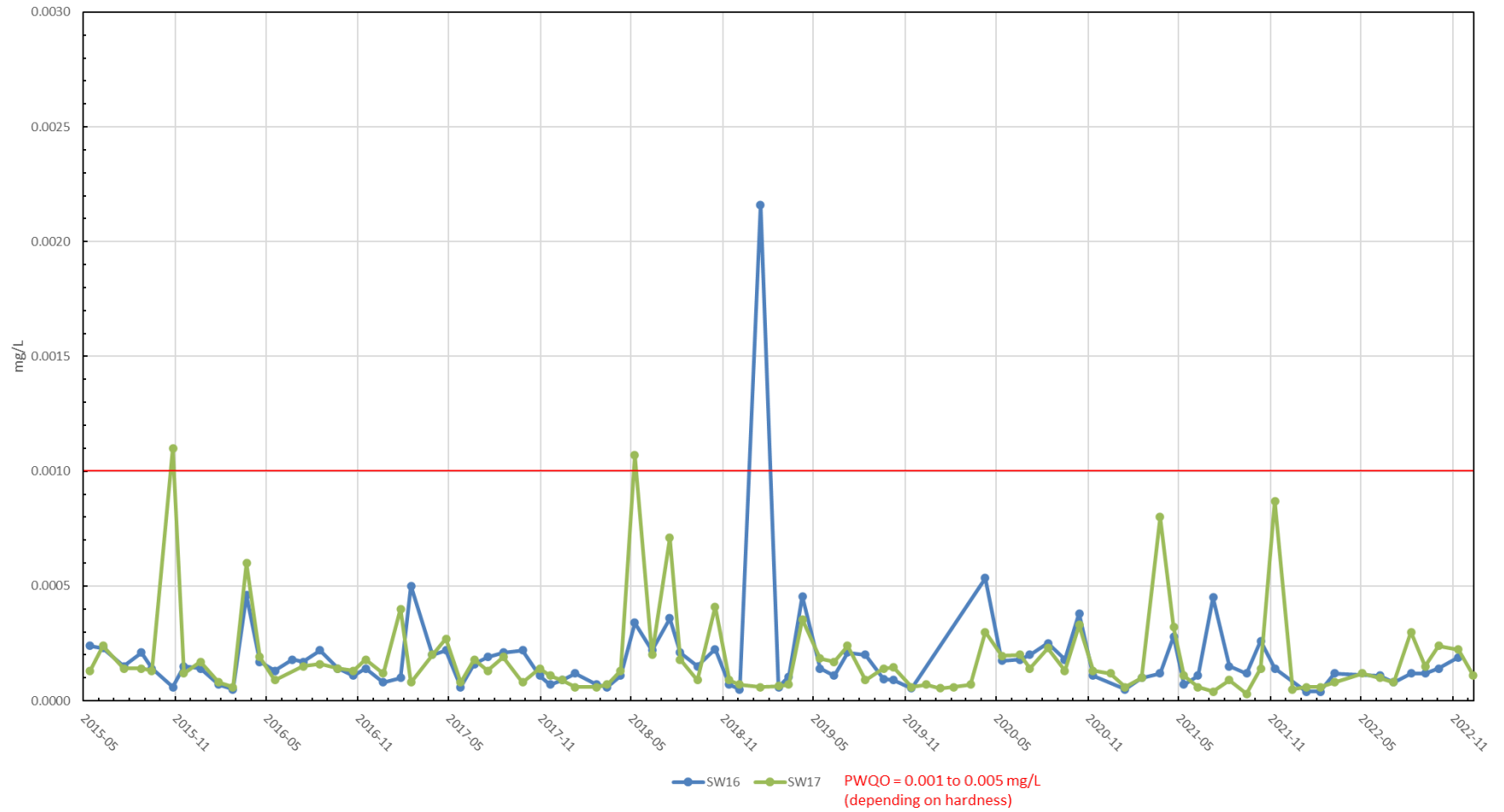


Figure 28b - Rainy River Mine, Total Lead in Rainy River 2022

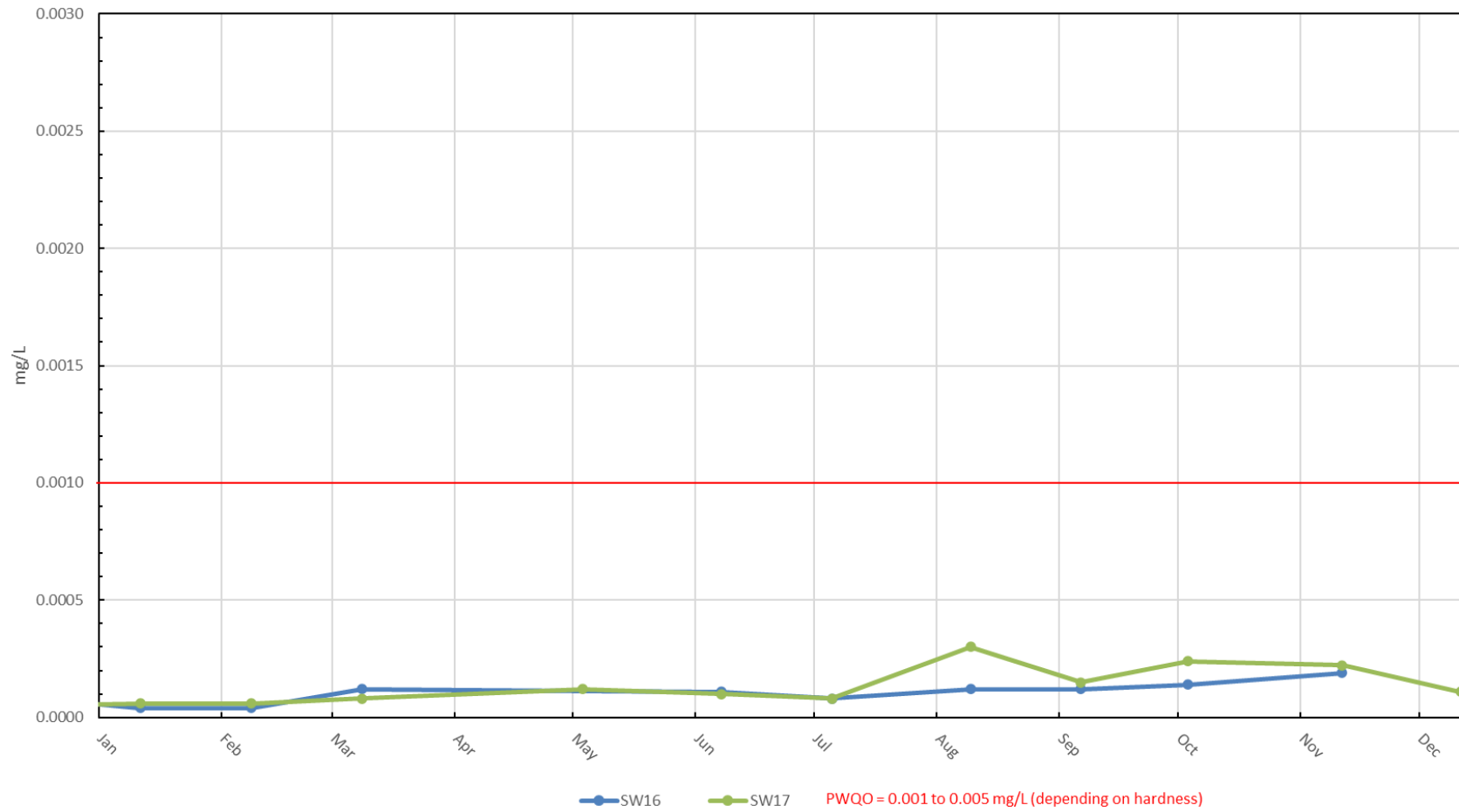


Figure 29a - Rainy River Mine, Total Nickel in Rainy River 2015-2022

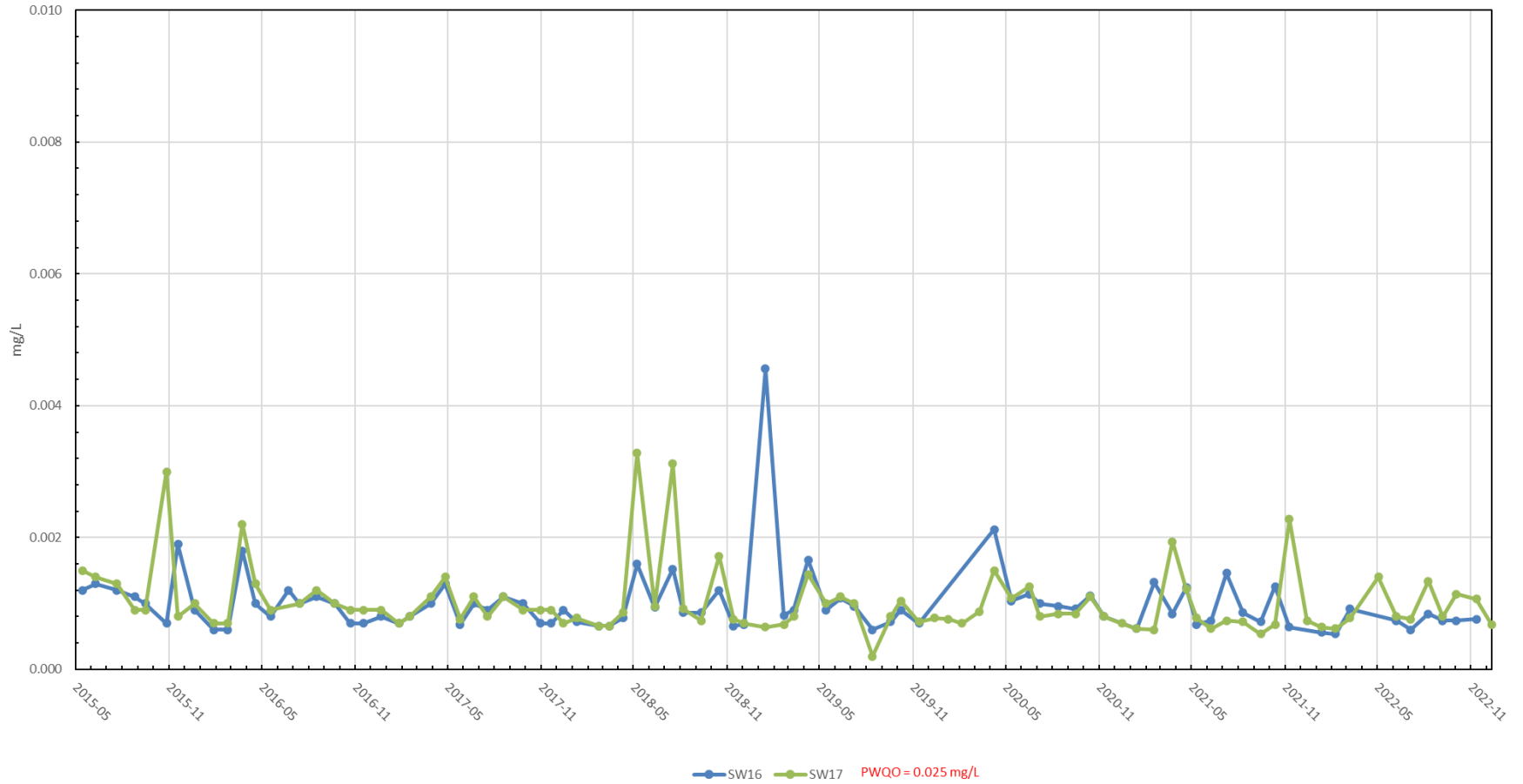


Figure 29b - Rainy River Mine, Total Nickel in Rainy River 2022

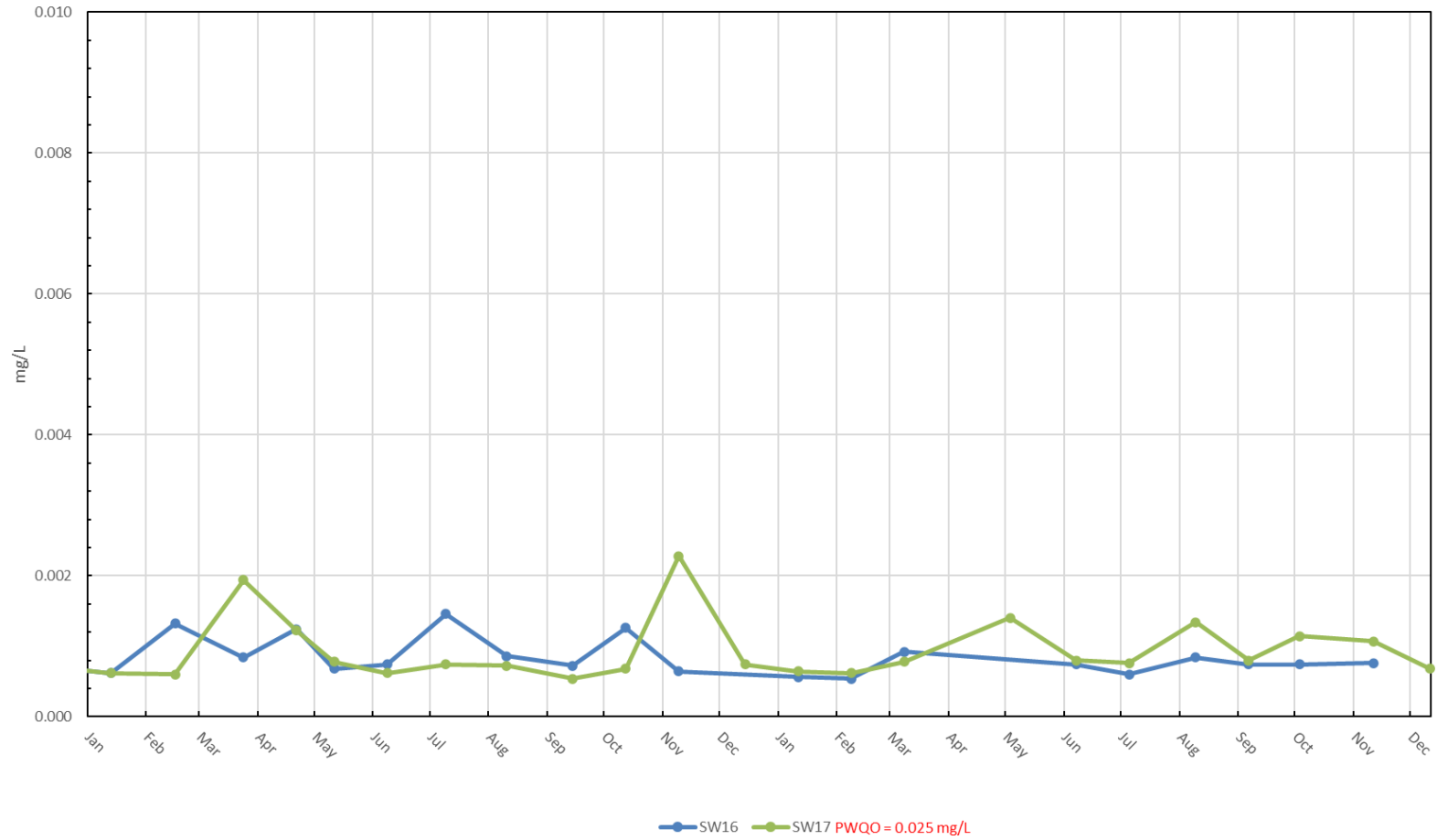


Figure 30a - Rainy River Mine, Total Phosphorus in Rainy River 2017-2022

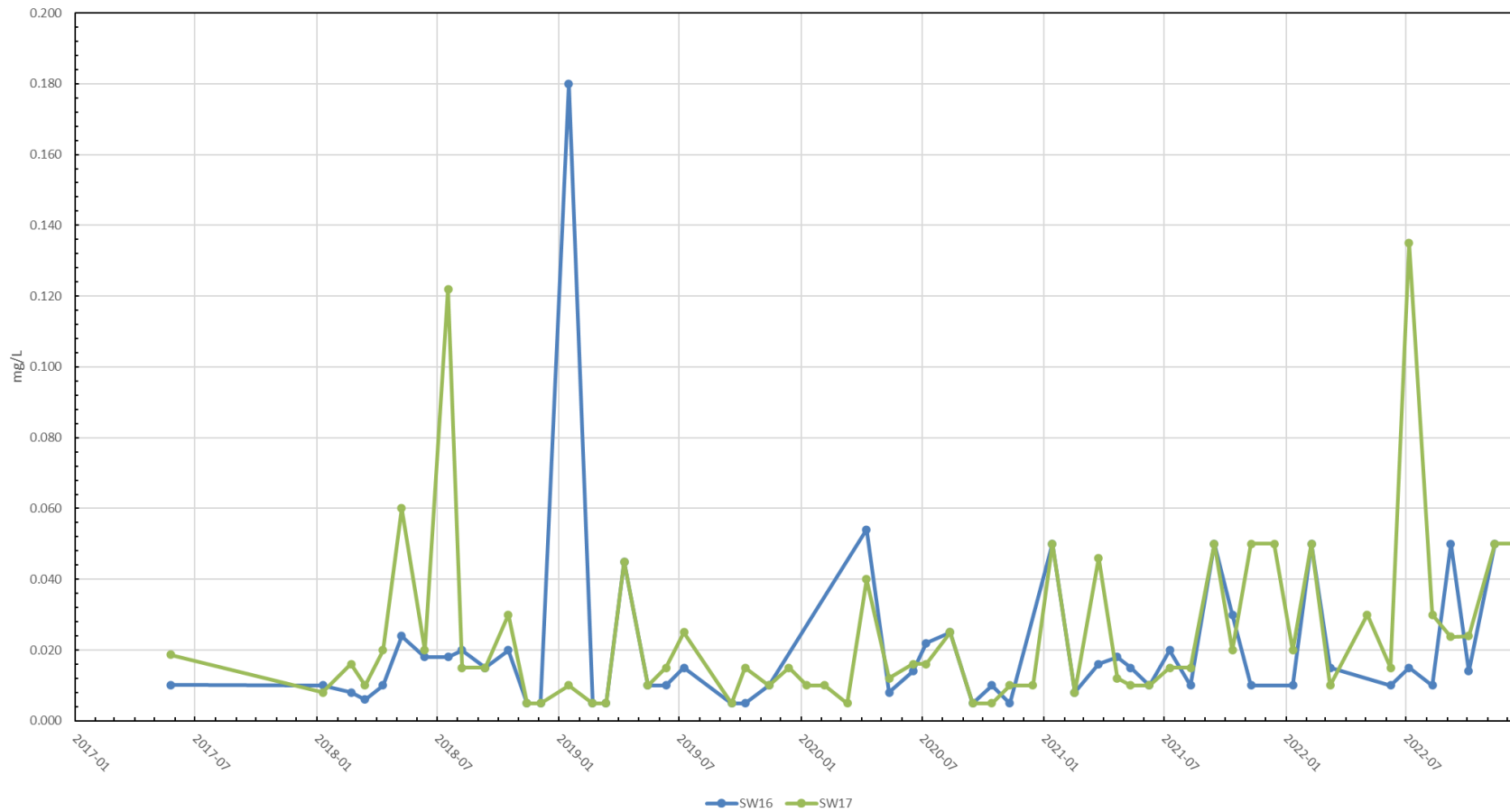


Figure 30b - Rainy River Mine, Total Phosphorus in Rainy River 2022

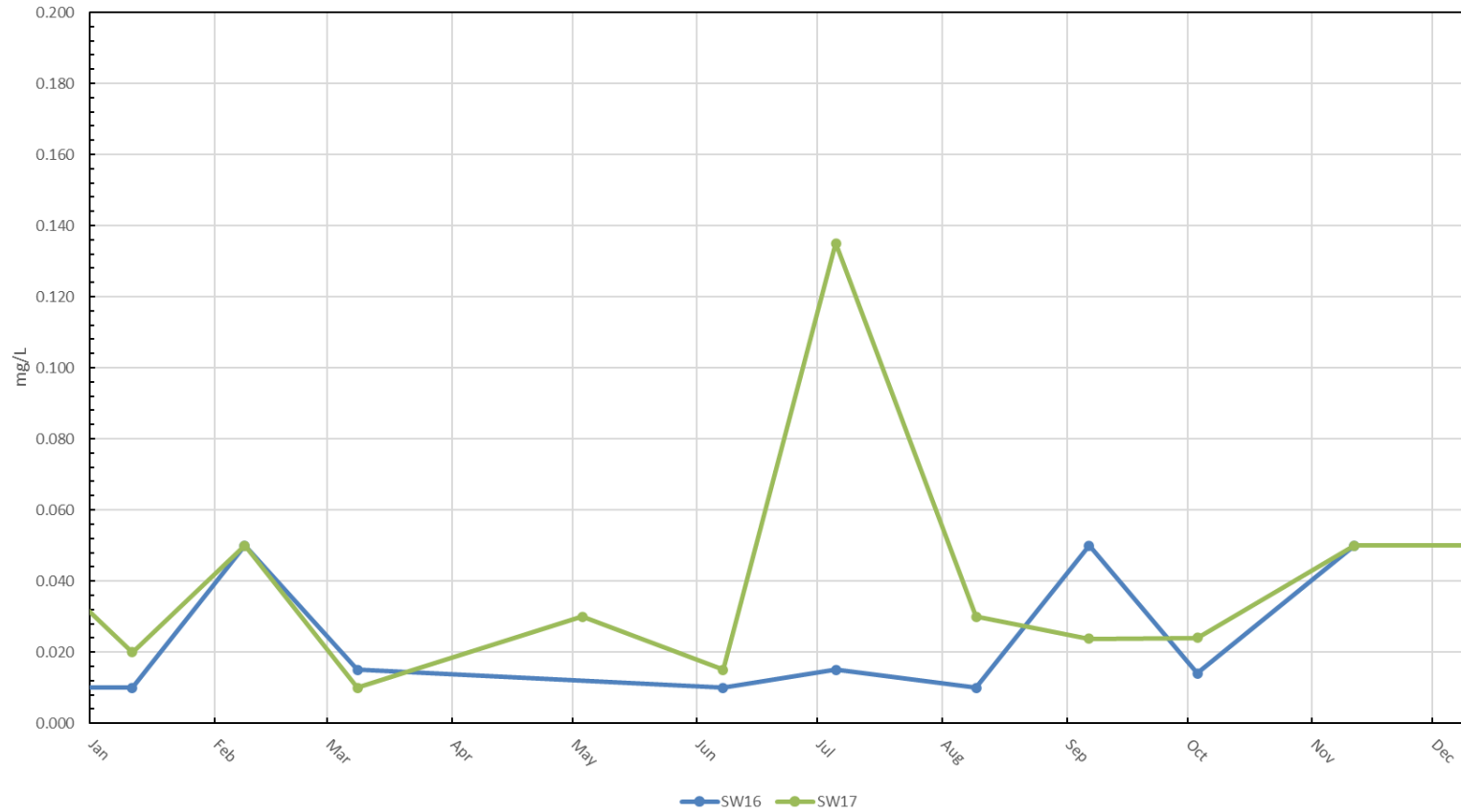




Figure 31a - Rainy River Mine, Total Zinc in Rainy River 2015-2022

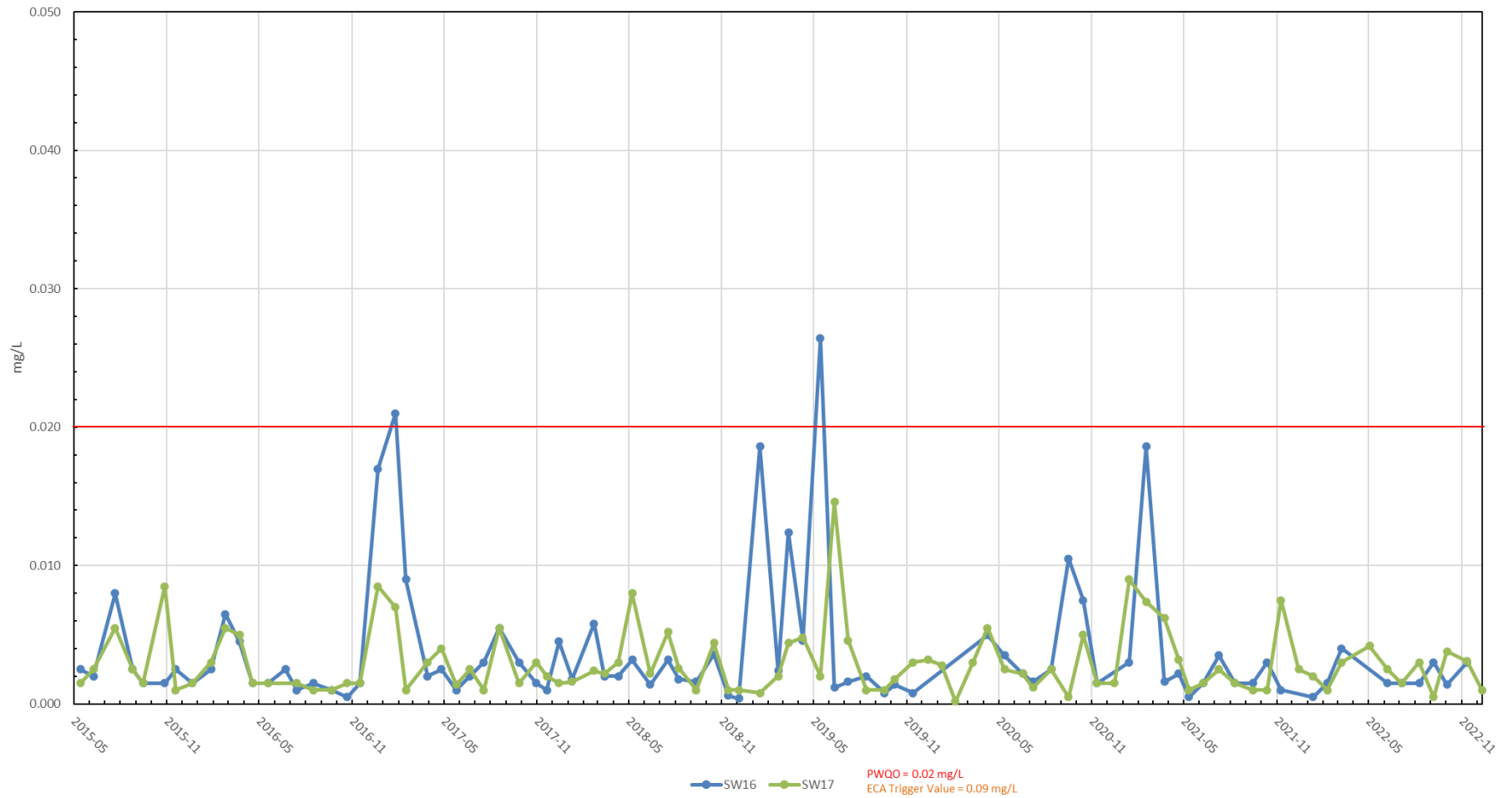


Figure 31b - Rainy River Mine, Total Zinc in Rainy River 2022

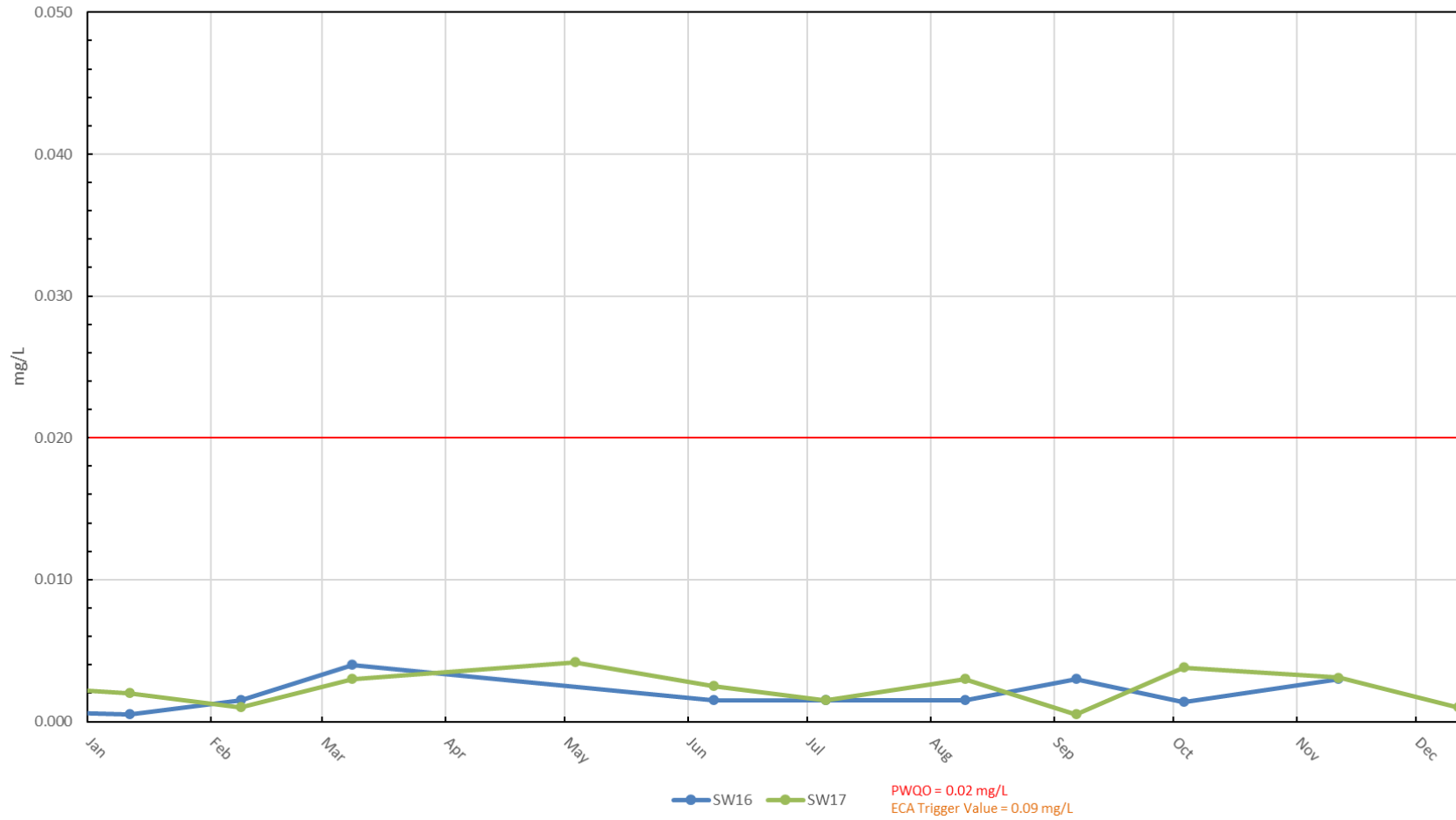


Figure 32a - Rainy River Mine, Total Mercury in Rainy River 2015-2022

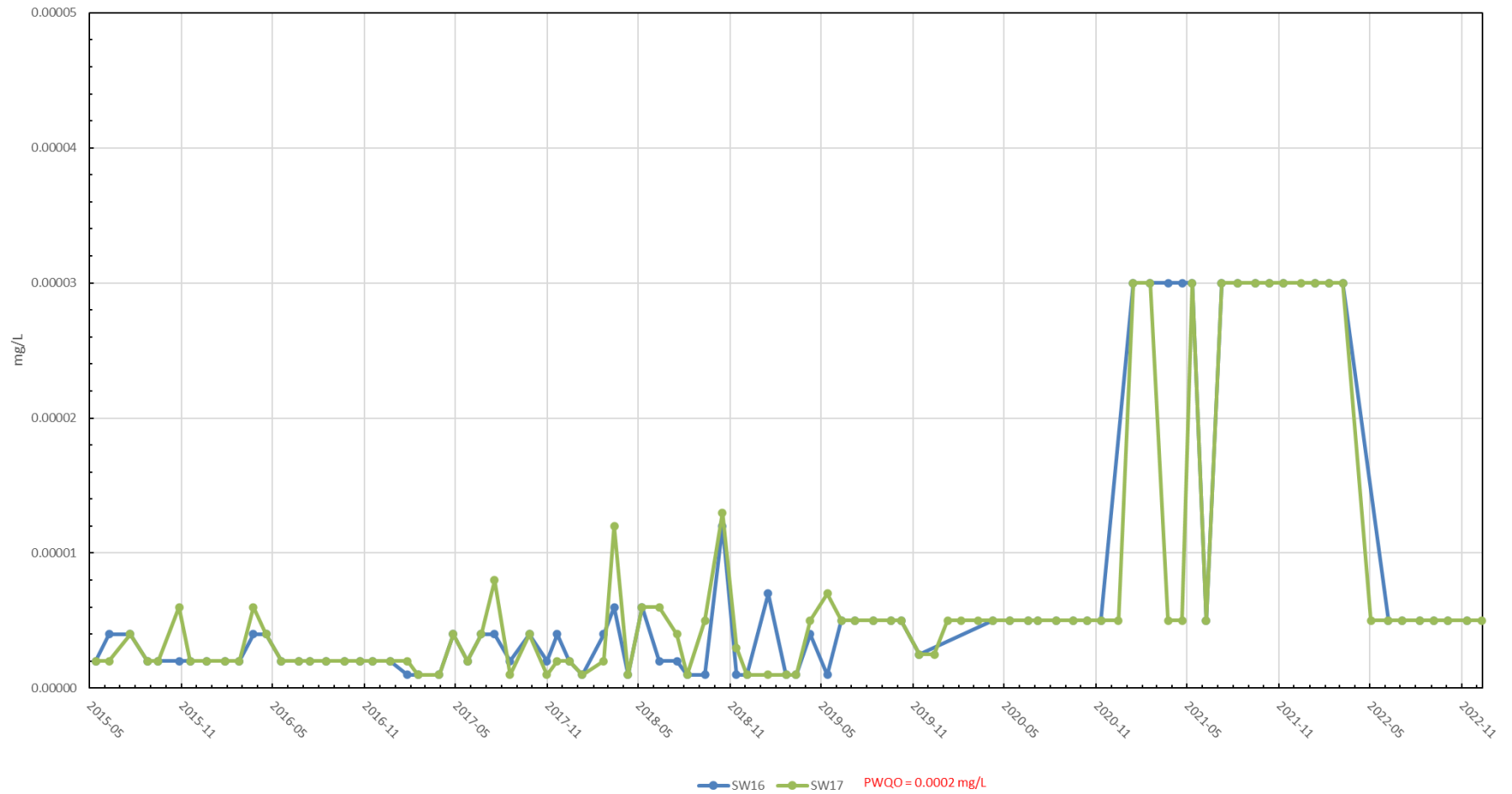


Figure 32b - Rainy River Mine, Total Mercury in Rainy River 2022

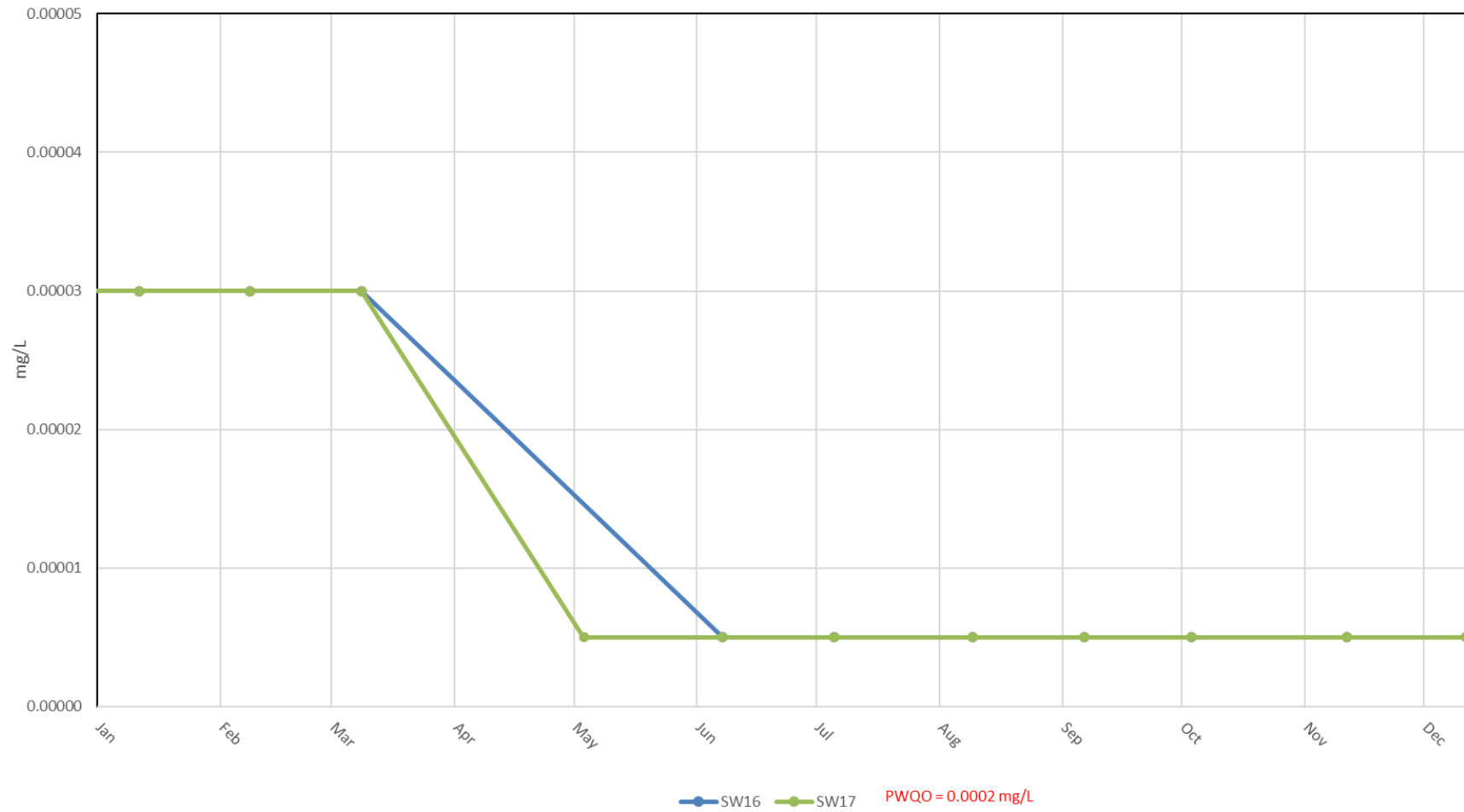


Figure 33a - Rainy River Mine, Un-ionized Ammonia in Rainy River 2015-2022

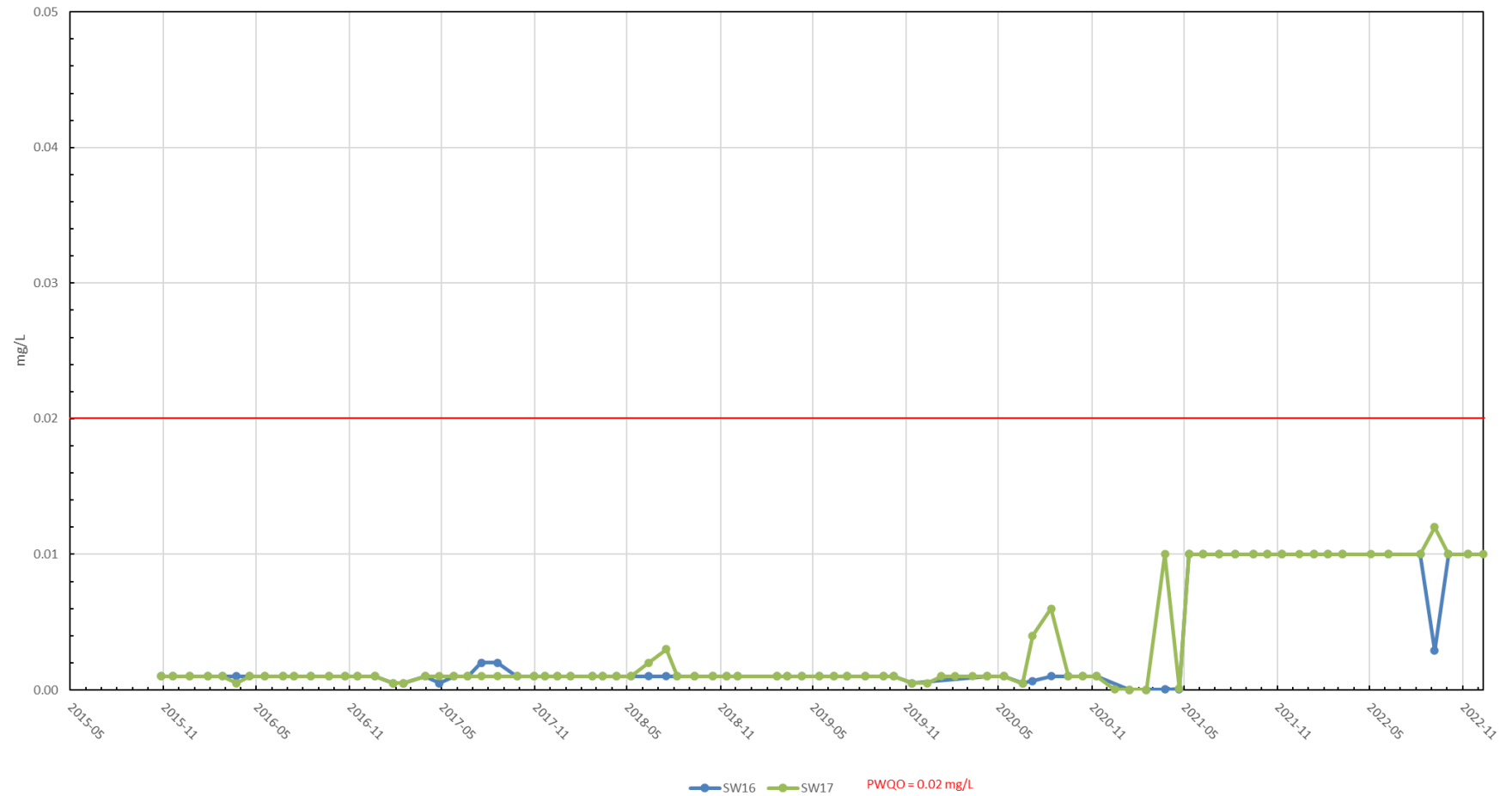


Figure 33b - Rainy River Mine, Un-ionized Ammonia in Rainy River 2022

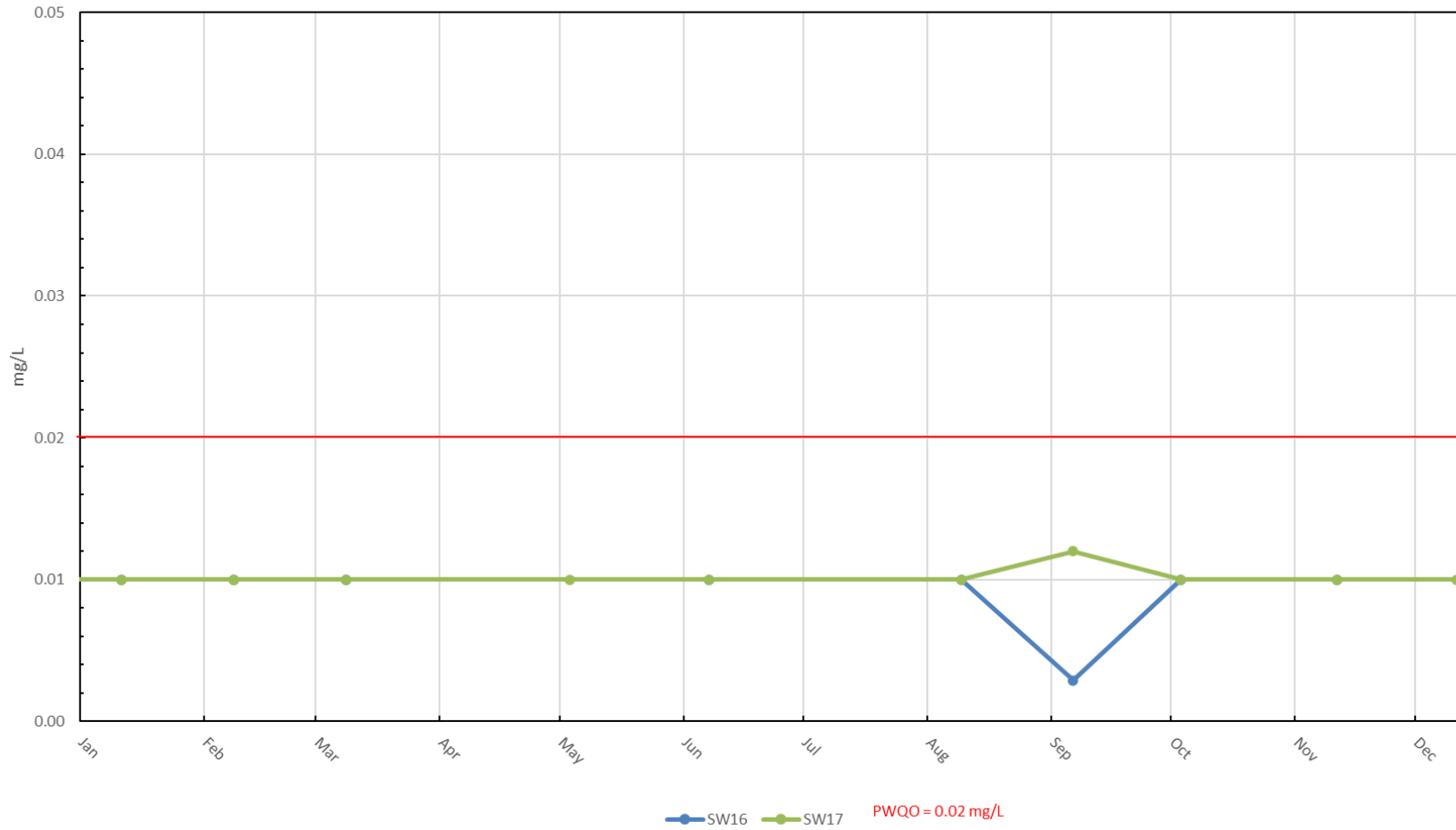


Figure 34a - Rainy River Mine, Free Cyanide in Rainy River 2018-2022

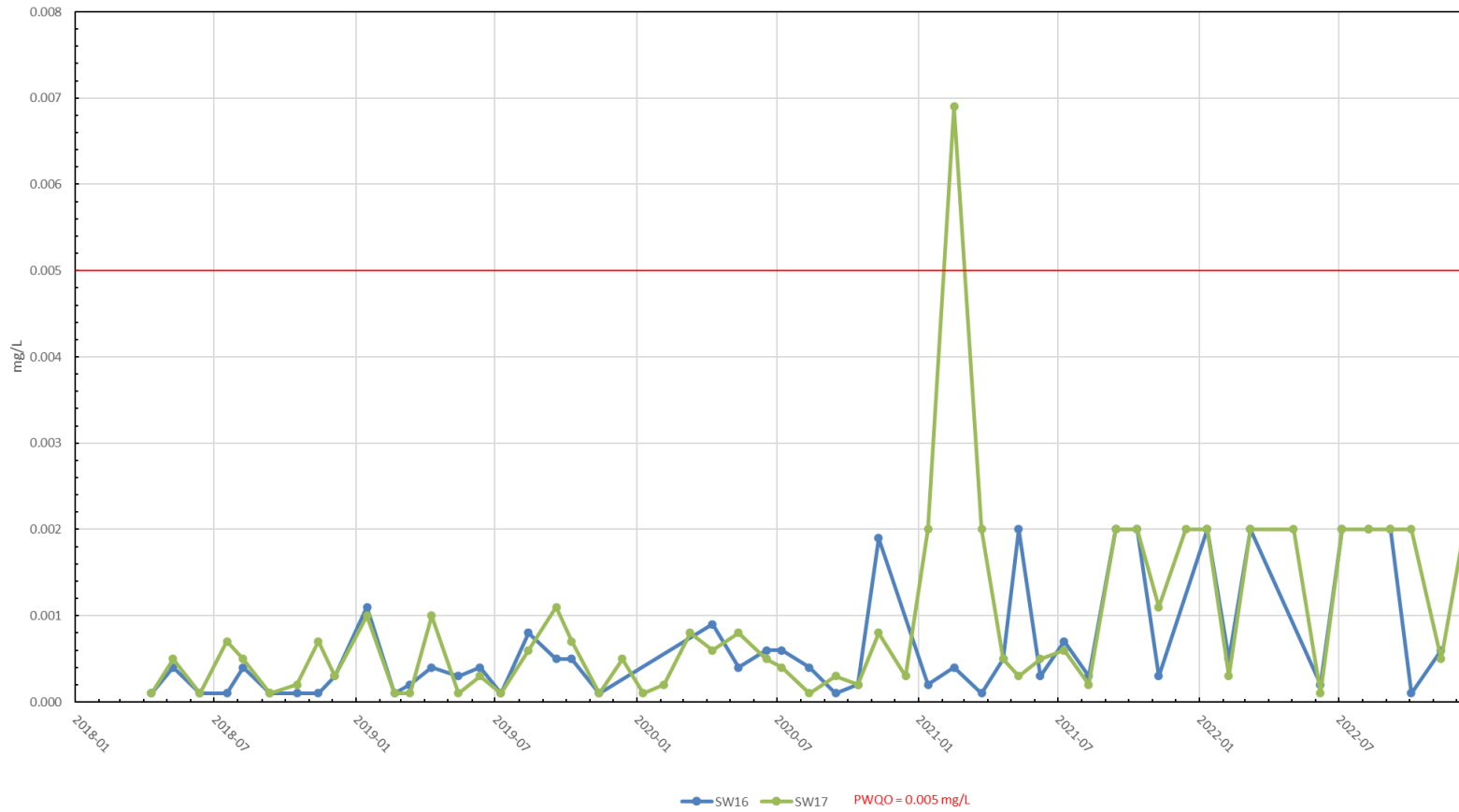
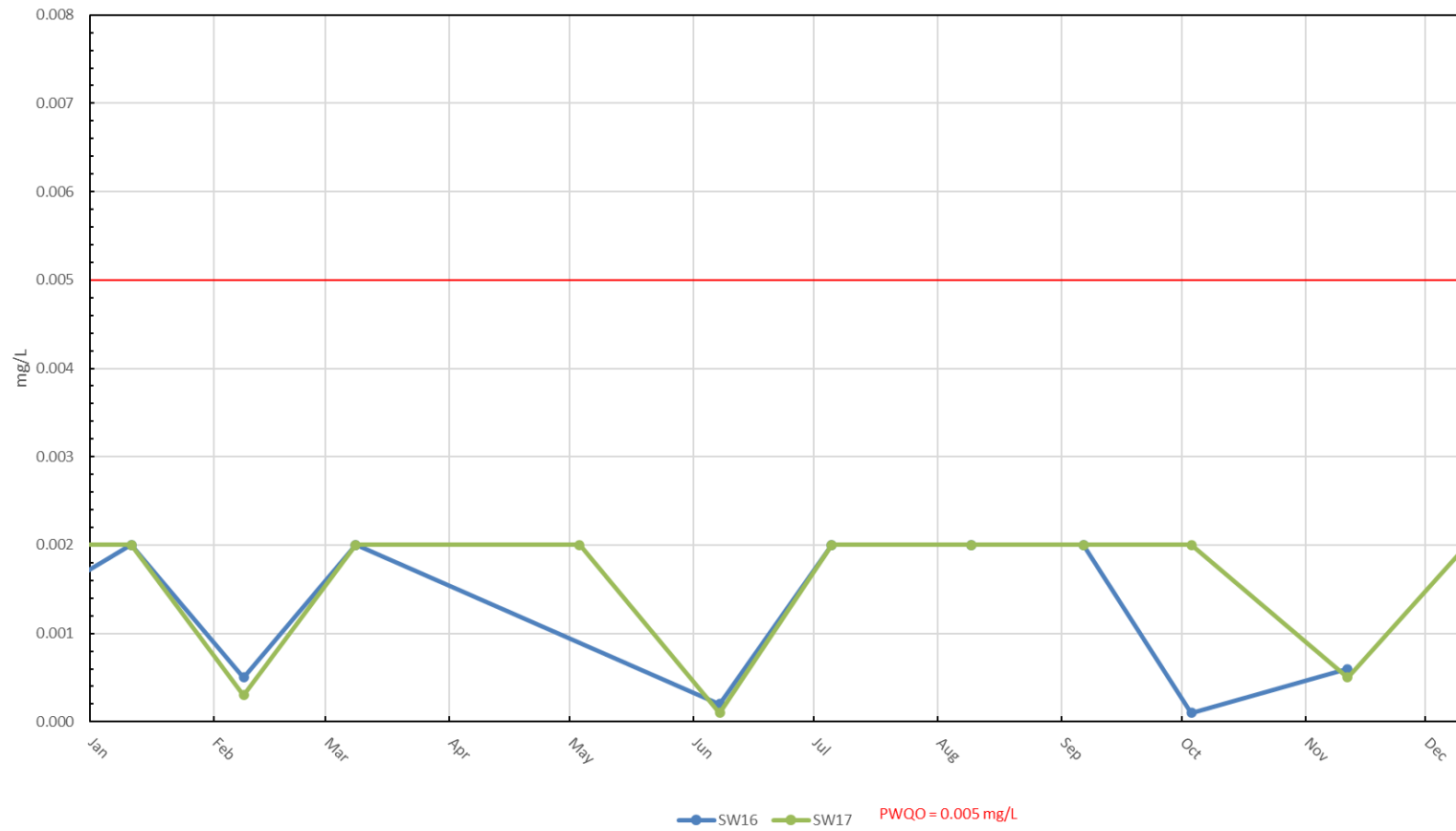


Figure 34b - Rainy River Mine, Free Cyanide in Rainy River 2022





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,



Garnet Cornell  
Environment Superintendent  
New Gold, Rainy River Mine

cc: MECP Northern Region Kenora Area Office

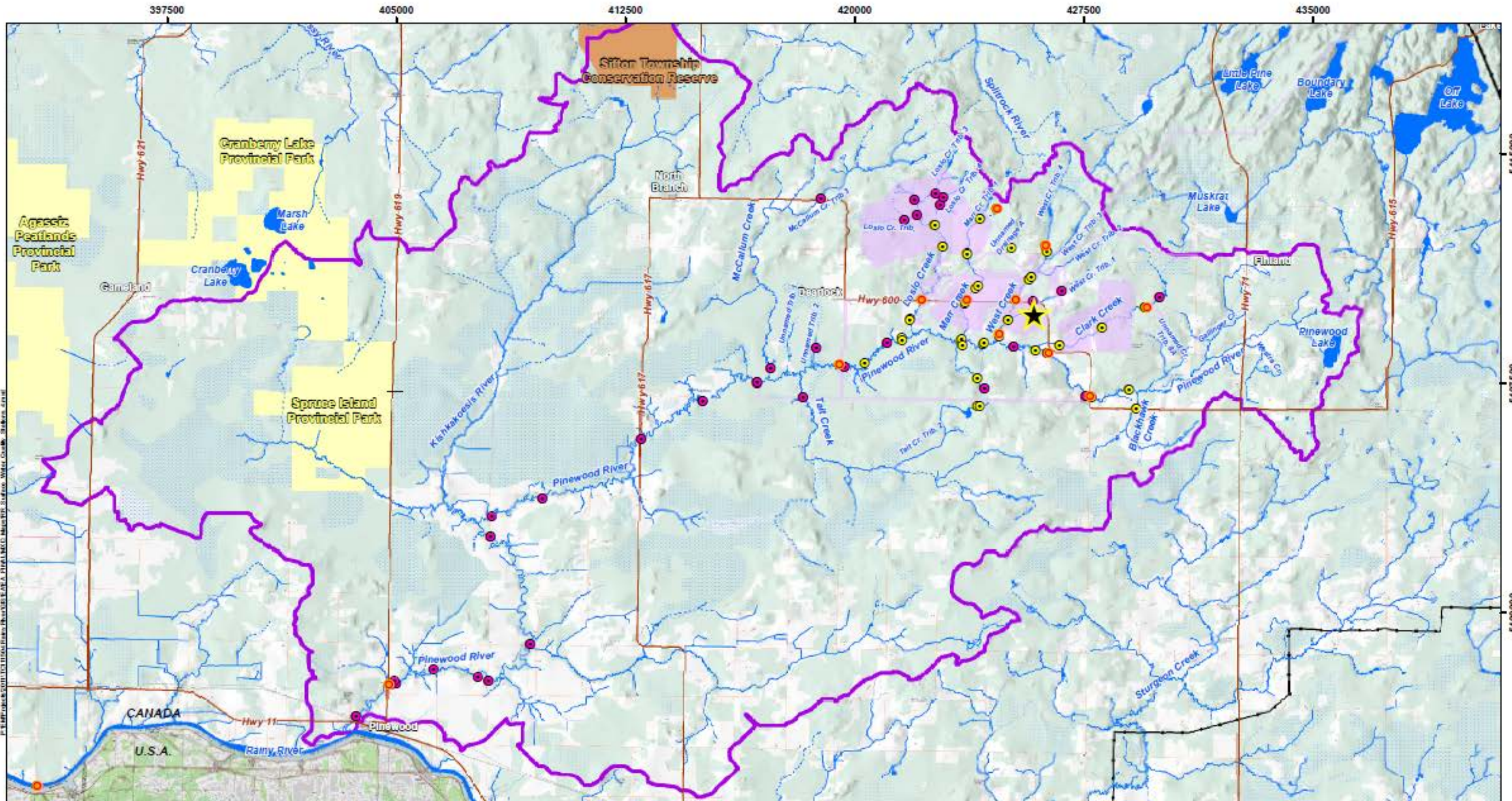


2022 Annual Surface Water Report  
Appendix B

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

Scale: 0 3 6 9 12 15 18 21 24 27 30 Kilometres

**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**

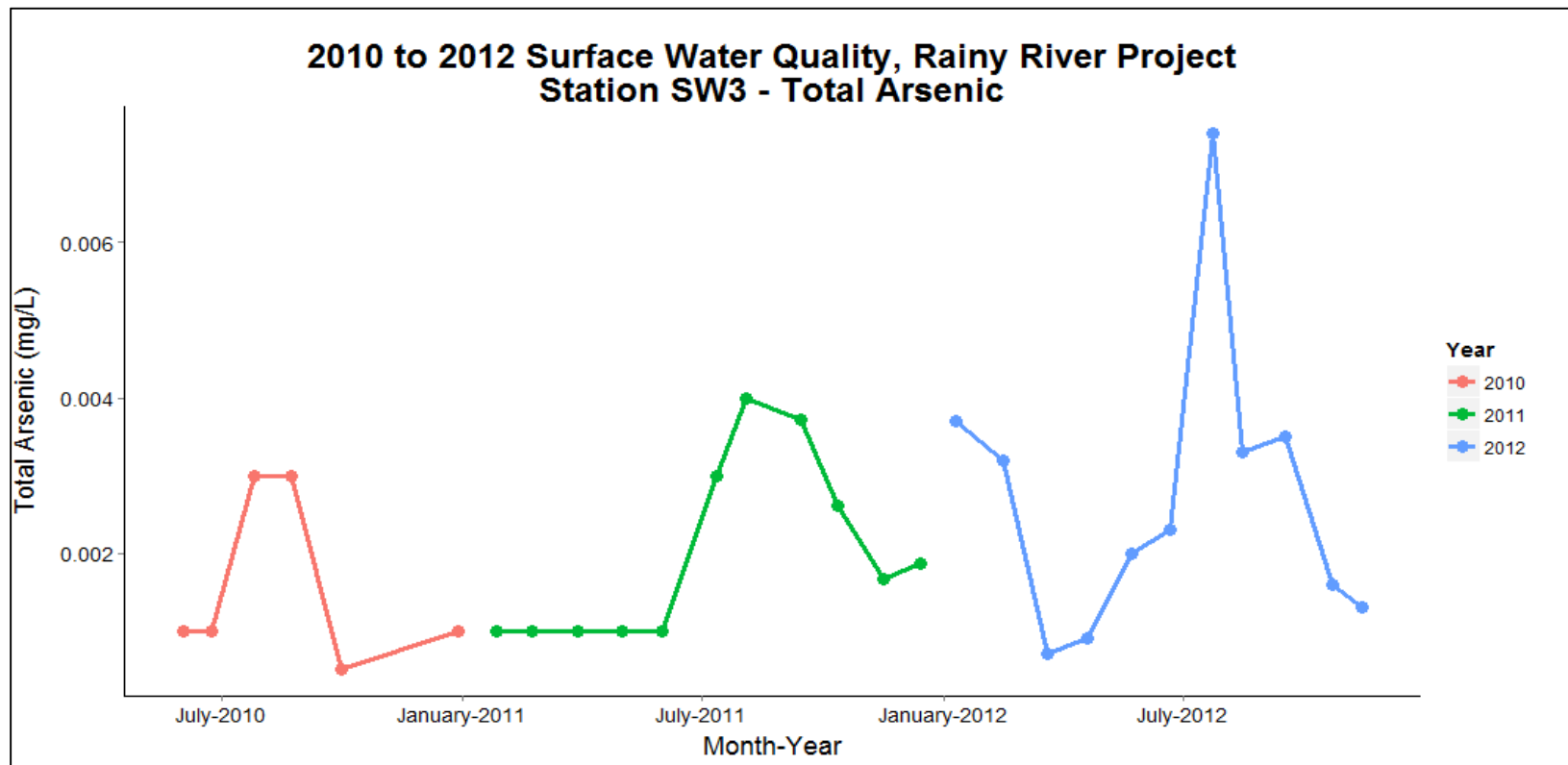
**RAINY RIVER PROJECT**

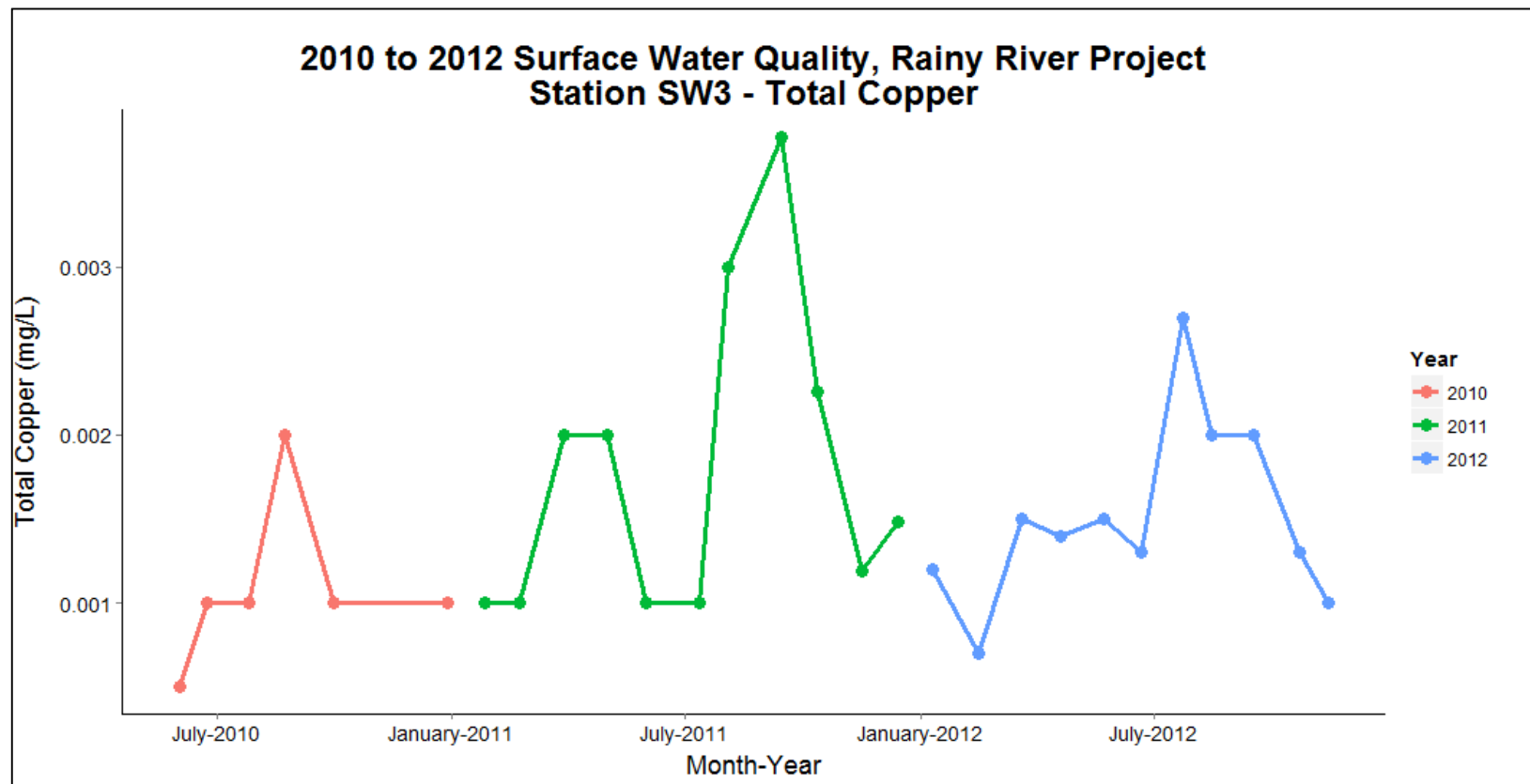
**Surface Water Quality Stations**

PROJECT N°: TC111504      FIGURE: 5-9

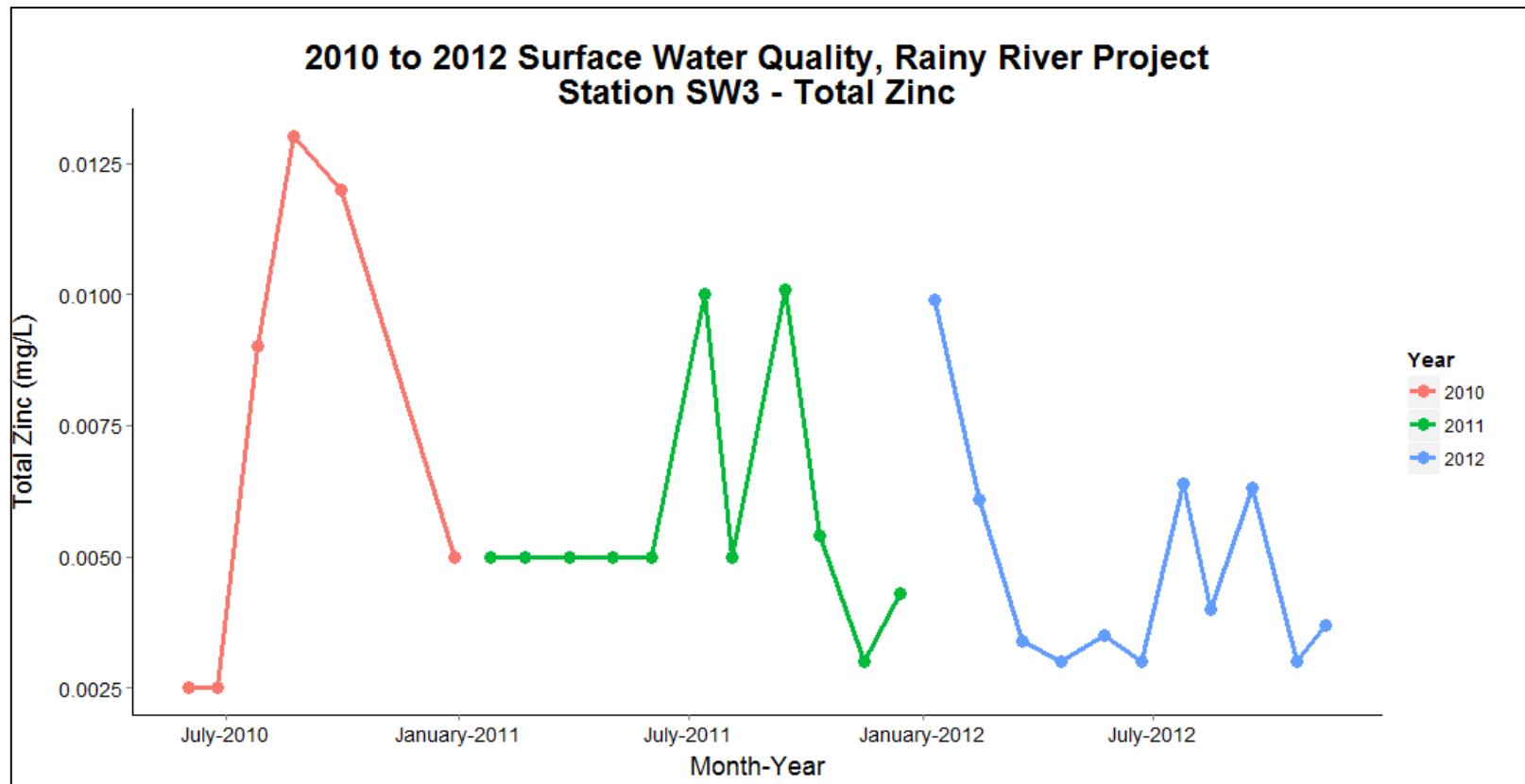
SCALE: 1:119,500      DATE: October 2013

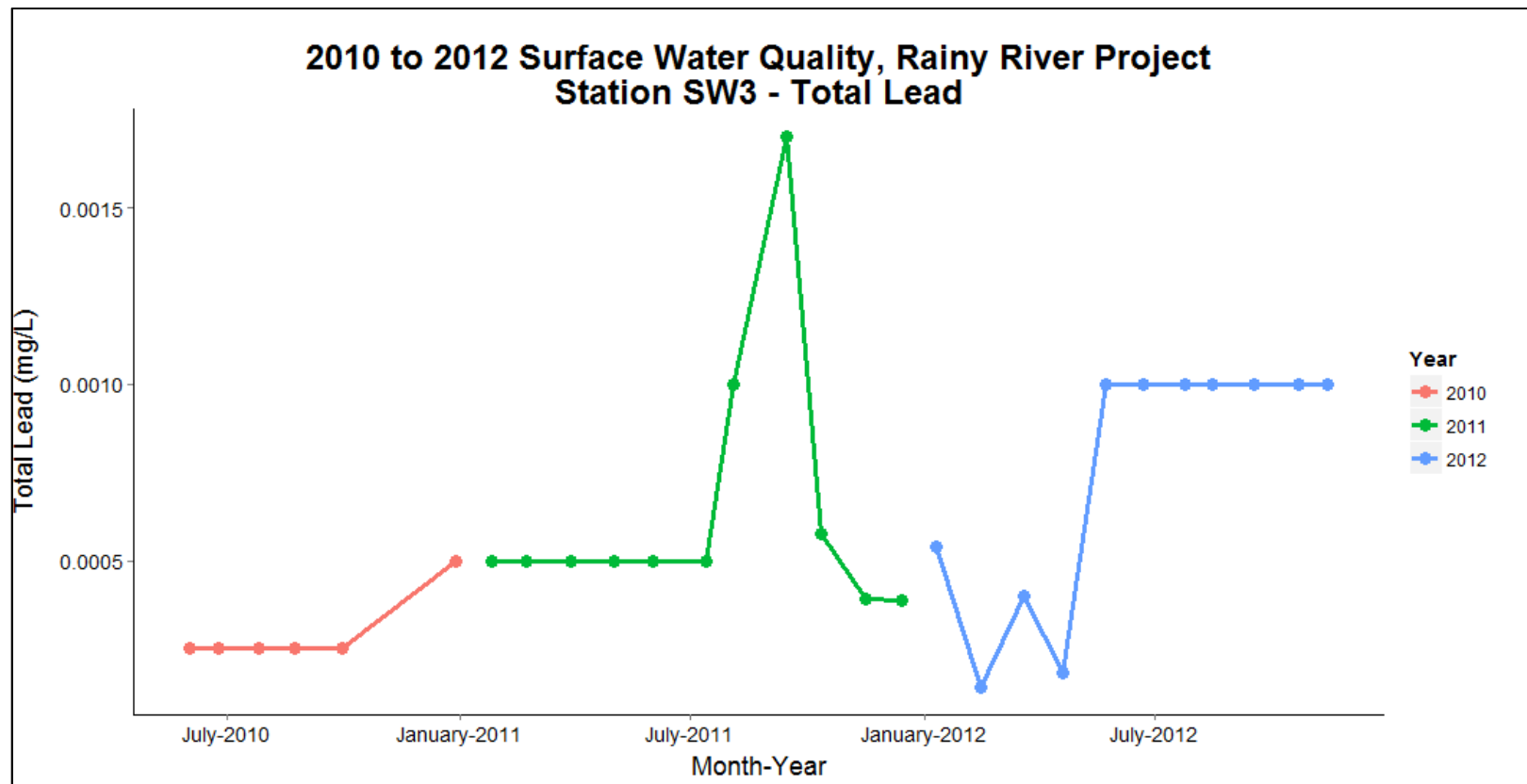


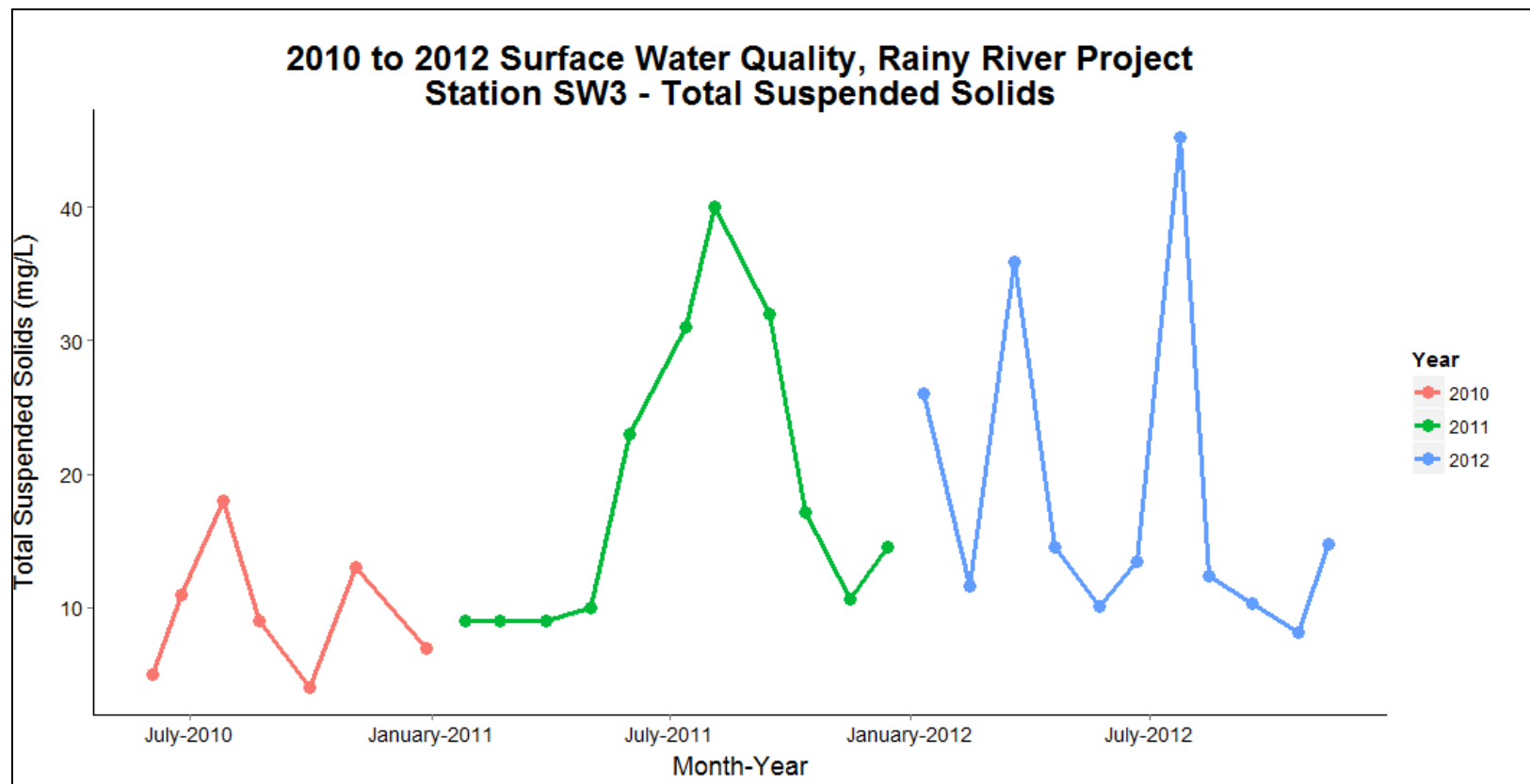


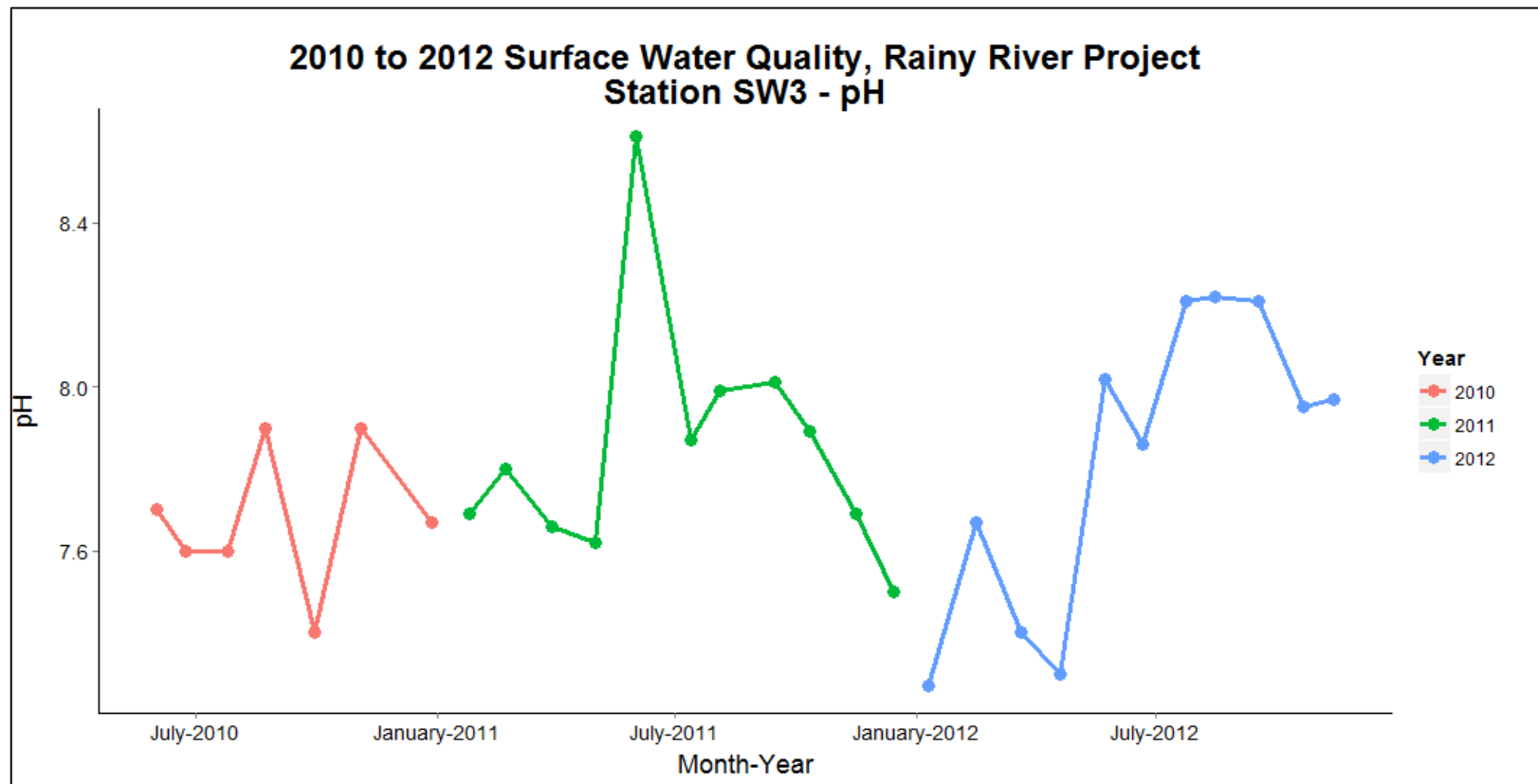


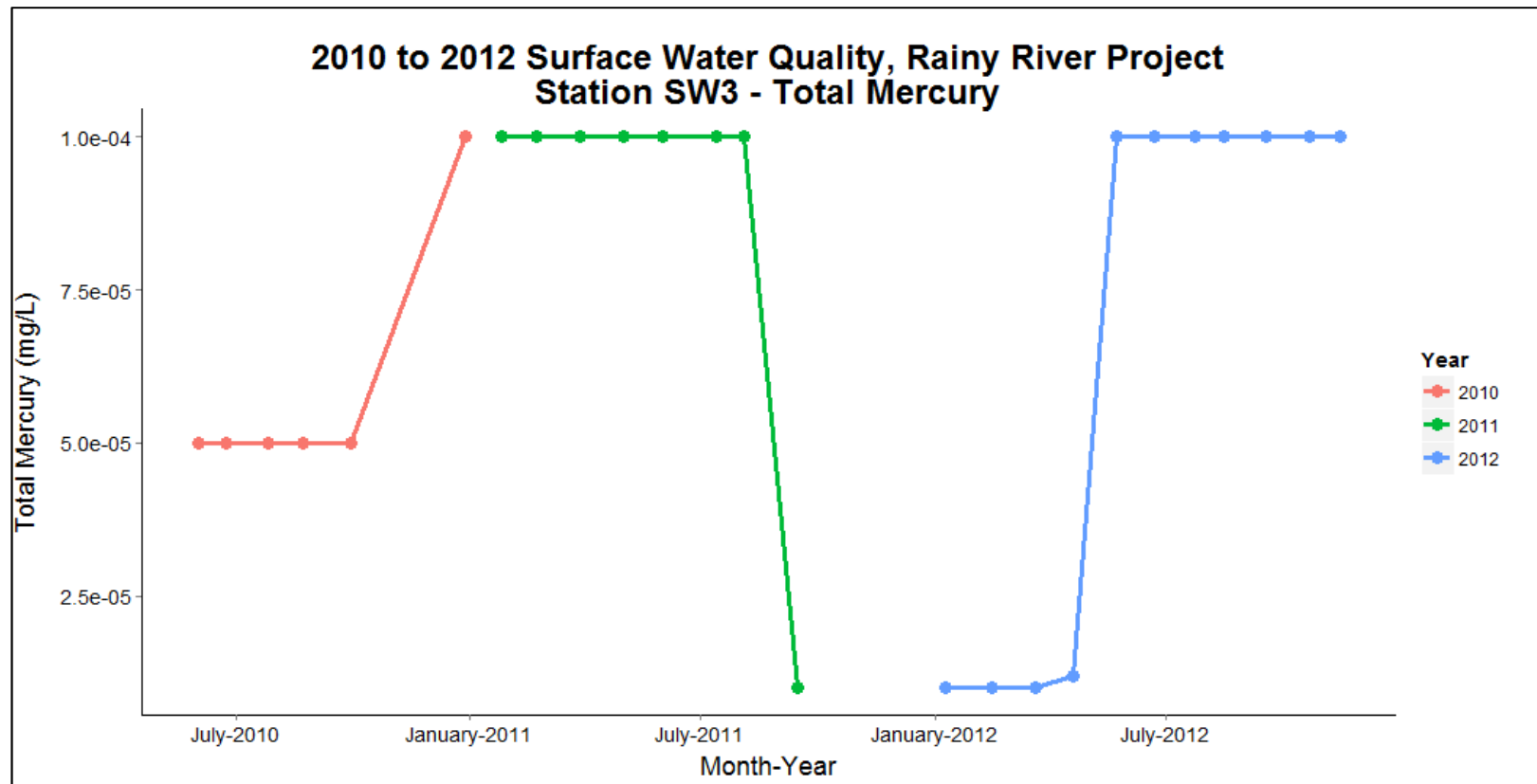


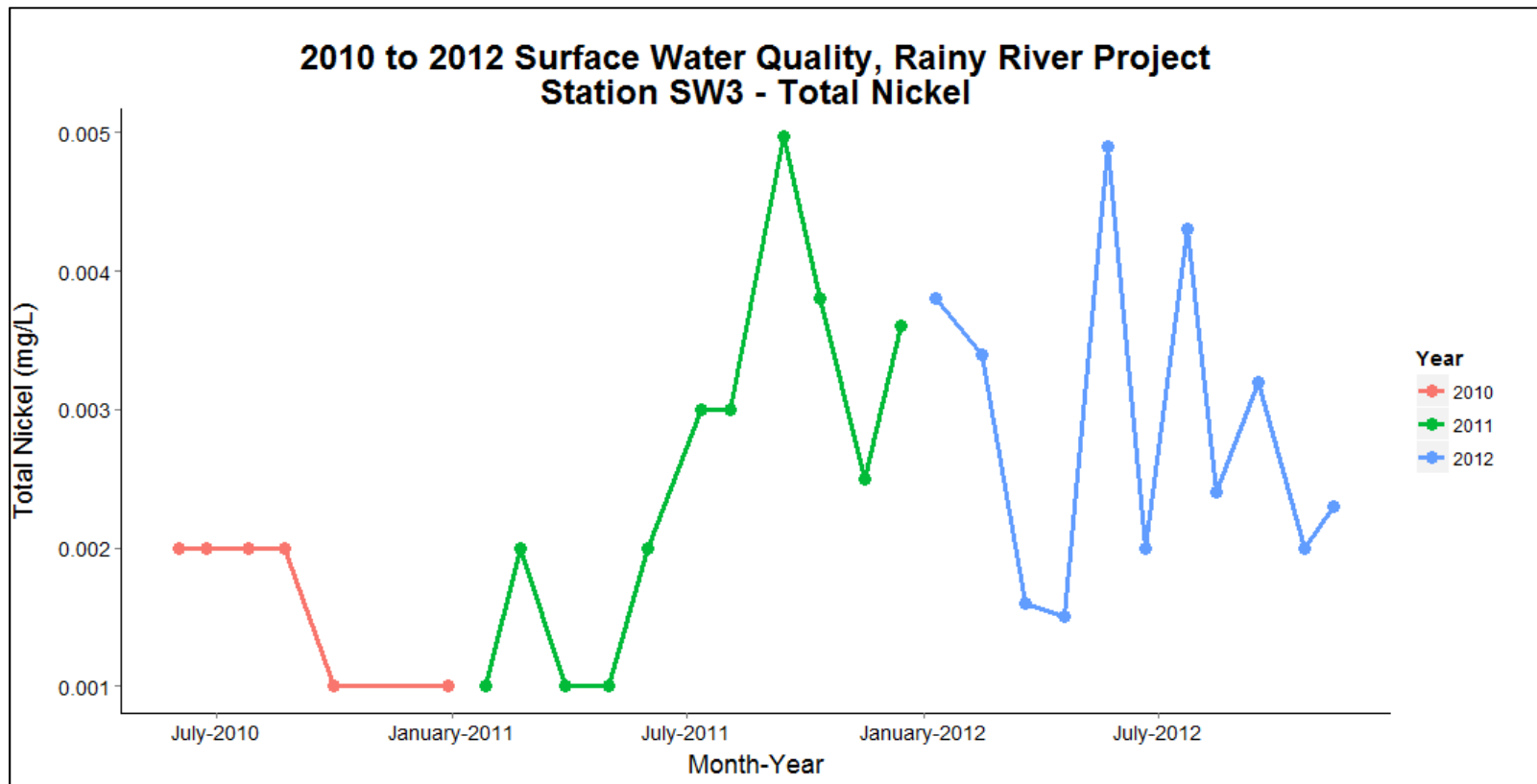












**Table 5-4: RRP Monthly Surface Water Quality Monitoring Stations**

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
<b>ECA Benchmarks</b>						<b>0.02</b>	<b>0.01</b>	<b>0.008</b>	<b>0.005</b>	<b>0.008</b>	<b>0.025</b>	<b>0.09</b>		<b>0.075</b>	<b>0.0001</b>	<b>0.001</b>	<b>0.0009</b>	<b>0.30</b>	<b>0.0002</b>	
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	<b>0.176</b>	0.000013	0.0007	0.00019	<b>0.49</b>	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	<b>0.269</b>	0.000023	0.0008	0.00030	<b>0.77</b>	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	<b>0.135</b>	0.000013	0.0006	0.00108	<b>1.41</b>	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	<b>0.128</b>	0.000022	0.0007	0.00092	<b>1.26</b>	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	<b>0.207</b>	0.000019	0.0008	0.00075	<b>1.26</b>	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	<b>0.448</b>	0.000024	0.0011	0.00074	<b>1.45</b>	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	<b>0.322</b>	0.000020	0.0012	0.00068	<b>1.33</b>	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	<b>0.443</b>	0.000030	0.0012	0.00054	<b>1.28</b>	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	<b>0.096</b>	0.000017	0.0004	0.00068	<b>0.68</b>	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	<b>0.231</b>	0.000015	0.0007	0.00028	<b>0.62</b>	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	<b>0.206</b>	0.000012	0.0007	0.00022	<b>0.55</b>	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	<b>0.207</b>	0.000015	0.0006	0.00020	<b>0.52</b>	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	<b>0.094</b>	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
<b>ECA Benchmarks</b>						<b>0.02</b>	<b>0.01</b>	<b>0.008</b>	<b>0.005</b>	<b>0.008</b>	<b>0.025</b>	<b>0.09</b>								
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	<b>0.200</b>	0.000028	0.0008	0.00046	<b>0.85</b>	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	<b>0.161</b>	0.000017	0.0006	0.00040	<b>0.82</b>	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	<b>0.216</b>	0.000014	0.0007	0.00104	<b>1.64</b>	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	<b>0.133</b>	0.000014	0.0006	0.00101	<b>1.50</b>	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	<b>0.542</b>	0.000026	0.0015	0.00106	<b>1.93</b>	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	<b>0.346</b>	0.000020	0.0011	0.00099	<b>1.68</b>	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	<b>0.328</b>	0.000037	0.0009	0.00061	<b>1.66</b>	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	<b>0.247</b>	0.000044	0.0005	0.00086	<b>1.16</b>	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	<b>0.259</b>	0.000018	0.0009	0.00032	<b>0.58</b>	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	<b>0.171</b>	0.000017	0.0006	0.00034	<b>0.60</b>	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	<b>0.073</b>	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
<b>ECA Benchmarks</b>						<b>0.02</b>	<b>0.01</b>	<b>0.008</b>	<b>0.005</b>	<b>0.008</b>	<b>0.025</b>	<b>0.09</b>		<b>0.075</b>	<b>0.0001</b>	<b>0.001</b>	<b>0.0009</b>	<b>0.30</b>	<b>0.0002</b>	
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	<b>0.259</b>	0.000009	0.0008	0.00041	<b>0.85</b>	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	<b>0.199</b>	0.000007	0.0007	0.00035	<b>0.77</b>	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	<b>0.128</b>	0.000008	0.0007	0.00090	<b>1.33</b>	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	<b>0.159</b>	0.000013	0.0006	0.00086	<b>1.26</b>	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	<b>0.222</b>	0.000013	0.0009	0.00090	<b>1.56</b>	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	<b>0.263</b>	0.000020	0.0009	0.00088	<b>1.85</b>	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	<b>0.270</b>	0.000017	0.0009	0.00086	<b>1.81</b>	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	<b>0.611</b>	0.000030	0.0016	0.00064	<b>1.63</b>	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	<b>0.201</b>	0.000046	0.0018	0.00091	<b>1.28</b>	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	<b>2.630</b>	0.000099	0.0054	0.00242	<b>3.88</b>	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	<b>0.086</b>	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
<b>ECA Benchmarks</b>						<b>0.02</b>	<b>0.01</b>	<b>0.008</b>	<b>0.005</b>	<b>0.008</b>	<b>0.025</b>	<b>0.09</b>		<b>0.075</b>	<b>0.0001</b>	<b>0.001</b>	<b>0.0009</b>	<b>0.30</b>	<b>0.0002</b>	
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	<b>0.444</b>	0.000009	0.0007	0.00022	<b>0.49</b>	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	<b>0.606</b>	0.000014	0.0012	0.00034	<b>0.66</b>	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	<b>0.401</b>	0.000006	0.0007	0.00024	<b>0.48</b>	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	<b>0.325</b>	0.000005	0.0007	0.00022	<b>0.41</b>	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	<b>0.299</b>	0.000006	0.0006	0.00026	<b>0.48</b>	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	<b>0.353</b>	0.000002	0.0007	0.00026	<b>0.52</b>	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	<b>0.439</b>	0.000007	0.0012	0.00029	<b>0.41</b>	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	<b>0.342</b>	0.000007	0.0008	0.00039	<b>0.70</b>	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	<b>0.305</b>	0.000002	0.0006	0.00015	<b>0.39</b>	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	<b>0.443</b>	0.000006	0.0008	0.00022	<b>0.50</b>	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	<b>0.612</b>	0.000011	0.0011	0.00030	<b>0.65</b>	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	<b>0.429</b>	0.000009	0.0008	0.00021	<b>0.45</b>	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	<b>0.147</b>	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	<b>0.203</b>	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	mg/L
<b>ECA Benchmarks</b>						<b>0.02</b>	<b>0.01</b>	<b>0.008</b>	<b>0.005</b>	<b>0.008</b>	<b>0.025</b>	<b>0.09</b>		<b>0.075</b>	<b>0.0001</b>	<b>0.001</b>	<b>0.0009</b>	<b>0.30</b>	<b>0.0002</b>		
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	<b>0.436</b>	0.000012	0.0006	0.00019	<b>0.47</b>	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	<b>0.492</b>	0.000014	0.0007	0.00023	<b>0.55</b>	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	<b>0.348</b>	0.000010	0.0005	0.00016	<b>0.43</b>	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	<b>0.453</b>	0.000009	0.0006	0.00024	<b>0.45</b>	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	<b>0.376</b>	0.000017	0.0005	0.00020	<b>0.37</b>	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	<b>0.374</b>	0.000014	0.0005	0.00019	<b>0.43</b>	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	<b>0.377</b>	0.000013	0.0004	0.00020	<b>0.42</b>	0.000005	0.030	
SW15	6.87	6.0	127	61.2	0.001	0.00072	0.0016	0.0001	0.00042	0.0016	0.0052	17.5	<b>0.581</b>	0.000021	0.0010	0.00040	<b>0.73</b>	0.000005	0.036		
Clark 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	<b>0.270</b>	0.000006	0.0004	0.00012	<b>0.34</b>	0.000005	0.016	
West Creek	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	<b>0.168</b>	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	<b>0.311</b>	0.000013	0.0004	0.00012	0.29	0.000005	0.014	
	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	<b>0.318</b>	0.000008	0.0004	0.00012	<b>0.31</b>	0.000005	0.018	
Loslo Creek	SW27	7.16	10.0	152	74.6	0.001	0.00042	0.0014	0.0003	0.00016	0.0008	0.0046	2.0	<b>0.257</b>	0.000009	0.0003	0.00011	<b>0.24</b>	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	<b>0.100</b>	0.000016	0.0001	0.00024	<b>0.22</b>	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	<b>0.233</b>	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	mg/L
<b>ECA Benchmarks</b>						<b>0.02</b>	<b>0.01</b>	<b>0.008</b>	<b>0.005</b>	<b>0.008</b>	<b>0.025</b>	<b>0.09</b>		<b>0.075</b>	<b>0.0001</b>	<b>0.001</b>	<b>0.0009</b>	<b>0.30</b>	<b>0.0002</b>		
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	<b>0.231</b>	0.000006	0.0007	0.00021	<b>0.48</b>	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	<b>0.223</b>	0.000010	0.0007	0.00023	<b>0.51</b>	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	<b>0.099</b>	0.000020	0.0005	0.00023	<b>0.44</b>	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	<b>0.101</b>	0.000012	0.0005	0.00033	<b>0.44</b>	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	<b>0.127</b>	0.000012	0.0005	0.00028	<b>0.40</b>	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	<b>0.276</b>	0.000017	0.0007	0.00031	<b>0.57</b>	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	<b>0.272</b>	0.000016	0.0007	0.00033	<b>0.59</b>	0.000005	0.030	
SW15	6.91	15.0	174	87.9	0.001	0.0013	0.0017	0.0011	0.00041	0.002	0.0045	10.5	<b>0.586</b>	0.000022	0.0012	0.00043	<b>0.86</b>	0.000005	0.045		
Clark 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	<b>0.141</b>	0.000006	0.0005	0.00014	<b>0.38</b>	0.000005	0.005	
West Creek	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	<b>0.243</b>	0.000010	0.0006	0.00017	<b>0.37</b>	0.000005	0.005	
	SW26	7.43	17.0	192	105	0.001	0.0010	0.0019	0.0005	0.00015	0.0015	0.0115	2.5	<b>0.242</b>	0.000009	0.0006	0.00018	<b>0.41</b>	0.000005	0.010	
Loslo Creek	SW27	7.32	18.0	219	119	0.001	0.0010	0.0018	0.0006	0.00014	0.0015	0.0075	2.5	<b>0.231</b>	0.000009	0.0007	0.00018	<b>0.38</b>	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	<b>0.135</b>	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	<b>0.135</b>	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	mg/L
<b>ECA Benchmarks</b>						<b>0.02</b>	<b>0.01</b>	<b>0.008</b>	<b>0.005</b>	<b>0.008</b>	<b>0.025</b>	<b>0.09</b>		<b>0.075</b>	<b>0.0001</b>	<b>0.001</b>	<b>0.0009</b>	<b>0.30</b>	<b>0.0002</b>		
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	<b>0.104</b>	0.000004	0.0005	0.00027	<b>0.50</b>	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	<b>0.47</b>	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	<b>1.01</b>	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	<b>0.142</b>	0.000001	0.0006	0.00033	<b>0.81</b>	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	<b>0.089</b>	0.000006	0.0004	0.00024	<b>0.43</b>	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	<b>0.238</b>	0.000009	0.0007	0.00052	<b>1.07</b>	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	<b>0.238</b>	0.000008	0.0008	0.00052	<b>1.07</b>	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	<b>0.133</b>	0.000010	0.0004	0.00031	<b>0.61</b>	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	<b>0.190</b>	0.000008	0.0006	0.00040	<b>0.51</b>	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	<b>0.348</b>	0.000009	0.0003	0.00018	<b>0.43</b>	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	<b>0.077</b>	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	<b>0.23</b>	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	<b>0.446</b>	0.000004	0.0009	0.00022	<b>0.54</b>	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	<b>0.093</b>	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	mg/L
<b>ECA Benchmarks</b>						<b>0.02</b>	<b>0.01</b>	<b>0.008</b>	<b>0.005</b>	<b>0.008</b>	<b>0.025</b>	<b>0.09</b>		<b>0.075</b>	<b>0.0001</b>	<b>0.001</b>	<b>0.0009</b>	<b>0.30</b>	<b>0.0002</b>		
Pinewood River	SW20	6.82	18.9	257	125	<b>0.028</b>	0.0022	0.0010	0.0008	0.00032	0.0030	0.0005	14	<b>0.397</b>	0.000009	0.0025	0.00070	<b>1.23</b>	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	<b>0.70</b>	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	<b>0.64</b>	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	<b>0.275</b>	0.000009	0.0012	0.00038	<b>0.67</b>	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	<b>0.074</b>	0.000006	0.0007	0.00032	<b>0.52</b>	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	<b>0.424</b>	0.000012	0.0011	0.00064	<b>1.46</b>	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	<b>0.286</b>	0.000010	0.0009	0.00055	<b>1.30</b>	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	<b>0.242</b>	0.000011	0.0007	0.00060	<b>0.96</b>	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	<b>0.606</b>	0.000007	0.0015	0.00054	<b>1.15</b>	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	<b>0.048</b>	0.000001	0.0003	0.00088	<b>1.20</b>	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	<b>0.204</b>	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	<b>0.51</b>	0.000005	0.010	
Loslo Creek	SW27			298	150	0.001	0.0017	0.0014	0.0006	0.00020	0.0016	0.0060	10	<b>0.130</b>	0.000010	0.0005	0.00028	<b>0.48</b>	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	<b>0.167</b>	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
<b>ECA Benchmarks</b>						<b>0.02</b>	<b>0.01</b>	<b>0.008</b>	<b>0.005</b>	<b>0.008</b>	<b>0.025</b>	<b>0.09</b>		<b>0.075</b>	<b>0.0001</b>	<b>0.001</b>	<b>0.0009</b>	<b>0.30</b>	<b>0.0002</b>	
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	<b>0.096</b>	0.000001	0.0004	0.00044	<b>0.68</b>	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	<b>0.39</b>	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	<b>0.38</b>	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	<b>0.216</b>	0.000017	0.0006	0.00031	<b>0.50</b>	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	<b>0.390</b>	0.000006	0.0009	0.00041	<b>0.67</b>	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	<b>0.458</b>	0.000005	0.0011	0.00061	<b>1.25</b>	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	<b>0.371</b>	0.000008	0.0009	0.00049	<b>1.14</b>	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	<b>0.224</b>	0.000005	0.0008	0.00027	<b>0.58</b>	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	<b>0.045</b>	0.000017	0.0004	0.00045	<b>0.87</b>	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	<b>0.247</b>	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	<b>0.37</b>	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	<b>0.140</b>	0.000017	0.0005	0.00019	<b>0.35</b>	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	<b>0.170</b>	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
<b>ECA Benchmarks</b>						<b>0.02</b>	<b>0.01</b>	<b>0.008</b>	<b>0.005</b>	<b>0.008</b>	<b>0.025</b>	<b>0.09</b>		<b>0.075</b>	<b>0.0001</b>	<b>0.001</b>	<b>0.0009</b>	<b>0.30</b>	<b>0.0002</b>	
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	<b>0.34</b>	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	<b>0.32</b>	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	<b>0.455</b>	0.000016	0.0010	0.00038	<b>0.64</b>	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	<b>0.366</b>	0.000011	0.0010	0.00042	<b>0.73</b>	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	<b>0.318</b>	0.000013	0.0008	0.00042	<b>0.69</b>	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	<b>0.211</b>	0.000015	0.0007	0.00031	<b>0.43</b>	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	<b>0.303</b>	0.000010	0.0008	0.00032	<b>0.52</b>	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	<b>0.29</b>	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	<b>0.091</b>	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	<b>0.135</b>	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	<b>0.44</b>	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	
<b>ECA Benchmarks</b>						<b>0.02</b>	<b>0.01</b>	<b>0.008</b>	<b>0.005</b>	<b>0.008</b>	<b>0.025</b>	<b>0.09</b>		<b>0.075</b>	<b>0.0001</b>	<b>0.001</b>	<b>0.0009</b>	<b>0.30</b>	<b>0.0002</b>		
Pinewood River	SW20	6.64	1.72	330	144	0.01	0.0007	0.0006	0.0014	0.0001	0.0013	0.002	5	<b>0.129</b>	0.000008	0.0008	0.0002	<b>0.48</b>	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	<b>0.639</b>	0.000019	0.0016	<b>0.0010</b>	<b>1.42</b>	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	<b>0.145</b>	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	<b>0.170</b>	0.000007	0.0006	0.0005	<b>0.36</b>	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	<b>0.156</b>	0.000018	0.0006	<b>0.0010</b>	<b>0.53</b>	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	<b>0.301</b>	0.000015	0.0009	0.0006	<b>0.62</b>	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	<b>0.077</b>	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	<b>0.465</b>	0.000016	0.0013	0.0004	<b>0.89</b>	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	<b>0.115</b>	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	<b>0.136</b>	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	<b>0.206</b>	0.000013	0.0007	0.0002	<b>0.38</b>	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	
<b>ECA Benchmarks</b>						<b>0.02</b>	<b>0.01</b>	<b>0.008</b>	<b>0.005</b>	<b>0.008</b>	<b>0.025</b>	<b>0.09</b>		<b>0.075</b>	<b>0.0001</b>	<b>0.001</b>	<b>0.0009</b>	<b>0.30</b>	<b>0.0002</b>		
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	<b>0.145</b>	0.000012	0.0005	<b>0.0010</b>	<b>1.13</b>	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	<b>0.141</b>	0.000013	0.0005	0.0007	<b>0.90</b>	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	<b>0.412</b>	0.000022	0.0010	0.0004	<b>0.90</b>	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	<b>0.099</b>	0.000008	0.0005	0.0002	<b>0.46</b>	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	<b>0.075</b>	0.000006	0.0004	0.0002	<b>0.48</b>	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	<b>0.149</b>	0.000005	0.0005	0.0002	<b>0.39</b>	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	<b>0.208</b>	0.000011	0.0006	0.0002	<b>0.49</b>	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	<b>0.433</b>	0.000015	<b>0.0011</b>	0.0004	<b>0.76</b>	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	<b>0.097</b>	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 <sup>3</sup> /day)	Calculated Average 24-hr Flow in Pinewood River at EDL2 (m <sup>3</sup> /day)	EDL1 Daily Discharge (m <sup>3</sup> /day)	EDL2 Daily Discharge (m <sup>3</sup> /day)	EDL1/EDL2 Dilution Ratio* (1 : X)	Sediment Pond 2 Daily Discharge (m <sup>3</sup> /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 <sup>3</sup> /day)	Calculated Average 24-hr Flow in Pinewood River at EDL2 (m <sup>3</sup> /day)	EDL1 Daily Discharge (m <sup>3</sup> /day)	EDL2 Daily Discharge (m <sup>3</sup> /day)	EDL1/EDL2 Dilution Ratio* (1 : X)	Sediment Pond 2 Daily Discharge (m <sup>3</sup> /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 <sup>3</sup> /day)	Calculated Average 24-hr Flow in Pinewood River at EDL2 (m <sup>3</sup> /day)	EDL1 Daily Discharge (m <sup>3</sup> /day)	EDL2 Daily Discharge (m <sup>3</sup> /day)	EDL1/EDL2 Dilution Ratio* (1 : X)	Sediment Pond 2 Daily Discharge (m <sup>3</sup> /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 <sup>3</sup> /day)	Calculated Average 24-hr Flow in Pinewood River at EDL2 (m <sup>3</sup> /day)	EDL1 Daily Discharge (m <sup>3</sup> /day)	EDL2 Daily Discharge (m <sup>3</sup> /day)	EDL1/EDL2 Dilution Ratio* (1 : X)	Sediment Pond 2 Daily Discharge (m <sup>3</sup> /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 <sup>3</sup> /day)	Calculated Average 24-hr Flow in Pinewood River at EDL2 (m <sup>3</sup> /day)	EDL1 Daily Discharge (m <sup>3</sup> /day)	EDL2 Daily Discharge (m <sup>3</sup> /day)	EDL1/EDL2 Dilution Ratio* (1 : X)	Sediment Pond 2 Daily Discharge (m <sup>3</sup> /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 <sup>3</sup> /day)	Calculated Average 24-hr Flow in Pinewood River at EDL2 (m <sup>3</sup> /day)	EDL1 Daily Discharge (m <sup>3</sup> /day)	EDL2 Daily Discharge (m <sup>3</sup> /day)	EDL1/EDL2 Dilution Ratio* (1 : X)	Sediment Pond 2 Daily Discharge (m <sup>3</sup> /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 <sup>3</sup> /day)	Calculated Average 24-hr Flow in Pinewood River at EDL2 (m <sup>3</sup> /day)	EDL1 Daily Discharge (m <sup>3</sup> /day)	EDL2 Daily Discharge (m <sup>3</sup> /day)	EDL1/EDL2 Dilution Ratio* (1 : X)	Sediment Pond 2 Daily Discharge (m <sup>3</sup> /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 <sup>3</sup> /day)	Calculated Average 24-hr Flow in Pinewood River at EDL2 (m <sup>3</sup> /day)	EDL1 Daily Discharge (m <sup>3</sup> /day)	EDL2 Daily Discharge (m <sup>3</sup> /day)	EDL1/EDL2 Dilution Ratio* (1 : X)	Sediment Pond 2 Daily Discharge (m <sup>3</sup> /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		
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		
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	<b>30</b>	8.0	5.5	6.5	<b>15</b>	6.7
Ammonia, Unionized	mg/L	<b>0.080</b>	0.001		0.001	<b>0.04</b>	0.001
Phosphorus, Total	mg/L		0.13		0.07	<b>0.1</b>	0.1
Cyanide, Total	mg/L	<b>0.1</b>	0.0002	0.0002	0.0006	<b>0.05</b>	0.00033
Cyanide, Free	mg/L	<b>0.02</b>	0.0001	0.0008	0.0003	<b>0.01</b>	0.0004
Arsenic, Total	mg/L	<b>0.034</b>	0.0037		0.0036	<b>0.017</b>	0.004
Copper, Total	mg/L	<b>0.028</b>	0.0009		0.0007	<b>0.014</b>	0.001
Lead, Total	mg/L	<b>0.03</b>	0.0001		0.0001	<b>0.015</b>	0.000
Nickel, Total	mg/L	<b>0.094</b>	0.0009		0.0012	<b>0.047</b>	0.001
Zinc, Total	mg/L	<b>0.348</b>	0.0005		0.0080	<b>0.174</b>	0.004
Field pH	pH units	<b>6.0-9.5</b>	7.05		7.62	<b>6.0-9.5</b>	7.34
Acute Toxicity, Rainbow Trout	Pass/Fail	<b>Pass</b>			Pass	<b>Pass</b>	Pass
Acute Toxicity, <i>Daphnia magna</i>	Pass/Fail	<b>Pass</b>			Pass	<b>Pass</b>	Pass
CBOD5	mg/L		13.2		8.1	<b>25</b>	10.7
Cadmium	mg/L		0.000001		0.00001	<b>0.001</b>	0.000004
Cobalt	mg/L		0.0007		0.0009	<b>0.0044</b>	0.001
<i>E. coli</i>	MPN/100mL		10.0000		10	<b>100</b>	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	<b>30</b>	8.0	<b>15</b>	8.0
Ammonia, Unionized	mg/L	<b>0.080</b>	0.001	<b>0.04</b>	0.001
Phosphorus, Total	mg/L		0.1	<b>0.1</b>	0.1
Cyanide, Total	mg/L	<b>0.1</b>	0.0012	<b>0.05</b>	0.00120
Cyanide, Free	mg/L	<b>0.02</b>	0.0005	<b>0.01</b>	0.001
Arsenic, Total	mg/L	<b>0.034</b>	0.0013	<b>0.017</b>	0.001
Copper, Total	mg/L	<b>0.028</b>	0.0019	<b>0.014</b>	0.0019
Lead, Total	mg/L	<b>0.03</b>	0.0001	<b>0.015</b>	0.0001
Nickel, Total	mg/L	<b>0.094</b>	0.0082	<b>0.047</b>	0.008
Zinc, Total	mg/L	<b>0.348</b>	0.4840	<b>0.174</b>	<b>0.484</b>
Field pH	pH units	<b>6.0-9.5</b>	6.92	<b>6.0-9.5</b>	6.92
Acute Toxicity, Rainbow Trout	Pass/Fail	<b>Pass</b>	Pass	<b>Pass</b>	Pass
Acute Toxicity, <i>Daphnia magna</i>	Pass/Fail	<b>Pass</b>	Pass	<b>Pass</b>	Pass
CBOD5	mg/L		2.0	<b>25</b>	2.0
Cadmium	mg/L		0.00033	<b>0.001</b>	0.000325
Cobalt	mg/L		0.0040	<b>0.0044</b>	0.004
<i>E. coli</i>	MPN/100mL		50	<b>100</b>	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		Sed Pond 2
Total Suspended Solids	mg/L	<b>30</b>	4.5	4.5	7	5.5	16.5	<b>15</b>	7.60
Ammonia, Unionized	mg/L	<b>0.080</b>	0.007	0.001	0.001	0.002	0.001	<b>0.04</b>	0.002
Phosphorus, Total	mg/L		0.015	0.010	0.015	0.015	0.003	<b>0.1</b>	0.012
Cyanide, Total	mg/L	<b>0.1</b>	0.0006	0.0004	0.0006	0.0006	0.0012	<b>0.05</b>	0.001
Cyanide, Free	mg/L	<b>0.02</b>	0.0001	0.0001	0.0001	0.0001	0.0009	<b>0.01</b>	0.0003
Arsenic, Total	mg/L	<b>0.034</b>	0.0016	0.0014	0.0014	0.0015	0.00134	<b>0.017</b>	0.0014
Copper, Total	mg/L	<b>0.028</b>	0.0019	0.0018	0.0017	0.0017	0.0017	<b>0.014</b>	0.0018
Lead, Total	mg/L	<b>0.03</b>	0.00001	0.00001	0.00001	0.00004	0.00016	<b>0.015</b>	0.00005
Nickel, Total	mg/L	<b>0.094</b>	0.0013	0.0012	0.0009	0.0013	0.0015	<b>0.047</b>	0.0012
Zinc, Total	mg/L	<b>0.348</b>	0.0055	0.01	0.0155	0.0255	0.0632	<b>0.174</b>	0.024
Field pH	pH units	<b>6.0-9.5</b>	8.99	8.38	8.26	8.06	7.82	<b>6.0-9.5</b>	8.3
Acute Toxicity, Rainbow Trout	Pass/Fail	<b>Pass</b>					Pass	<b>Pass</b>	Pass
Acute Toxicity, <i>Daphnia magna</i>	Pass/Fail	<b>Pass</b>					Pass	<b>Pass</b>	Pass
CBOD5	mg/L		2	2	2	2	2		2.0
Cadmium	mg/L		0.00002	0.00005	0.00006	0.00009	0.00021	<b>0.001</b>	0.00009
Cobalt	mg/L		0.0002	0.00019	0.00021	0.00023	0.00037	<b>0.0044</b>	0.00024
<i>E. coli</i>	MPN/100mL		10	10		1	30	<b>100</b>	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	<b>30</b>	3	2.5	<b>15</b>	2.75
Ammonia, Unionized	mg/L	<b>0.080</b>		0.025	<b>0.04</b>	0.025
Phosphorus, Total	mg/L		0.006	0.01	<b>0.1</b>	0.008
Cyanide, Free	mg/L	<b>0.02</b>	0.0001	0.0005	<b>0.01</b>	0.0003
Cyanide, Total	mg/L	<b>0.1</b>	0.0002	0.0002	<b>0.05</b>	0.0002
Arsenic, Total	mg/L	<b>0.034</b>	0.002	0.0015	<b>0.017</b>	0.0018
Copper, Total	mg/L	<b>0.028</b>	0.0018	0.0019	<b>0.014</b>	0.0019
Lead, Total	mg/L	<b>0.03</b>	0.00001	0.00001	<b>0.015</b>	0.00001
Nickel, Total	mg/L	<b>0.094</b>	0.0009	0.0010	<b>0.047</b>	0.0010
Zinc, Total	mg/L	<b>0.348</b>	0.002	0.0035	<b>0.174</b>	0.0028
Field pH	pH units	<b>6.0-9.5</b>	7.75	9.19	<b>6.0-9.5</b>	8.47
Acute Toxicity, Rainbow Trout	Pass/Fail	<b>Pass</b>	Pass		<b>Pass</b>	Pass
Acute Toxicity, <i>Daphnia magna</i>	Pass/Fail	<b>Pass</b>	Pass		<b>Pass</b>	Pass
CBOD5	mg/L		2	2		2
Cadmium	mg/L		0.00000	0.00001	<b>0.001</b>	0.00001
Cobalt	mg/L		0.00016	0.00019	<b>0.0044</b>	0.00018
<i>E. coli</i>	MPN/100mL		10	10	<b>100</b>	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:

---

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
L2678895-1 FB_SW_20220111 Sampled By: Client on 12-JAN-22 @ 12:00 Matrix: QC							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Total Dissolved Solids	184		13	mg/L		17-JAN-22	R5699359
Turbidity	1.44		0.10	NTU		14-JAN-22	R5695657
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	<.1		0.10	pH		21-JAN-22	R5703517
Temperature, Client Supplied	6.67		0	Degree C		21-JAN-22	R5703517
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
Sulfate (SO4)	7.25		0.30	mg/L		15-JAN-22	R5697440
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	<.1		0.10	pH		21-JAN-22	R5703517
Temperature, Client Supplied	6.98		0	Degree C		21-JAN-22	R5703517
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							

\* Refer 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							
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	<.1		0.10	pH		21-JAN-22	R5703517
Temperature, Client Supplied	6.88		0	Degree C		21-JAN-22	R5703517
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	<.1		0.10	pH		21-JAN-22	R5703517
Temperature, Client Supplied	6.82		0	Degree C		21-JAN-22	R5703517
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Turbidity	14.4		0.10	NTU		14-JAN-22	R5695657
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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 &amp; 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 <sub>3</sub> )	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 <sub>3</sub> )	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)
<p>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.</p> <p>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.</p>			
CN-WAD-MISA-CFA-WT	Effluent	Weak Acid Dissociable Cyanide by CFA	APHA 4500-CN CYANIDE (modified)
<p>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.</p>			
COD-TB	Water	Chemical Oxygen Demand	APHA 5220D
<p>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.</p>			
COLOUR-TB	Water	Colour, True	APHA 2120 C
<p>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.</p>			
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
<p>This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.</p>			
F-IC-N-TB	Water	Fluoride in Water by IC	EPA 300.1 (mod)
<p>Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.</p>			
HARDNESS-CALC-TB	Effluent	Hardness (as CaCO <sub>3</sub> )	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)
<p>Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.</p> <p>Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.</p>			
MET-T-MISA-TB	Effluent	Total Metals in Water (MISA)	EPA 200.2/6020B (mod)
<p>Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.</p> <p>Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.</p>			
NH3-MISA-F-TB	Effluent	Ammonia by Discrete Analyzer	catnr 157/158 062217/99321057 (modified)
<p>Ammonia is determined by Flow-injection analysis with fluorescence detection</p>			
NH3-UNION-CALC-TB	Effluent	Un-ionized ammonia	Calculation
NO2-MISA-IC-TB	Effluent	Nitrite in Water by IC	EPA 300.1 (mod)
<p>Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.</p>			
NO3-MISA-IC-TB	Effluent	Nitrate in Water by IC	EPA 300.1 (mod)
<p>Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.</p>			
		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
<b>BOD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5700856</b>							
<b>WG3685083-8</b>	<b>DUP</b>	<b>L2678895-4</b>						
Biochemical Oxygen Demand		2.8	3.9	J	mg/L	1.1	4	14-JAN-22
<b>WG3685083-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			101.1		%		85-115	14-JAN-22
<b>WG3685083-6</b>	<b>LCS</b>							
Biochemical Oxygen Demand			105.3		%		85-115	14-JAN-22
<b>WG3685083-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	14-JAN-22
<b>WG3685083-5</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	14-JAN-22
<b>CL-L-IC-N-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5697440</b>							
<b>WG3685250-3</b>	<b>DUP</b>	<b>L2678895-1</b>						
Chloride (Cl)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	15-JAN-22
<b>WG3685250-2</b>	<b>LCS</b>							
Chloride (Cl)			99.5		%		90-110	15-JAN-22
<b>WG3685250-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	15-JAN-22
<b>WG3685250-4</b>	<b>MS</b>	<b>L2678895-2</b>						
Chloride (Cl)			101.7		%		75-125	15-JAN-22
<b>COD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5700836</b>							
<b>WG3685984-3</b>	<b>DUP</b>	<b>L2678892-1</b>						
Chemical Oxygen Demand		65	66		mg/L	1.5	20	19-JAN-22
<b>WG3685984-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			104.1		%		85-115	19-JAN-22
<b>WG3685984-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	19-JAN-22
<b>WG3685984-4</b>	<b>MS</b>	<b>L2678892-2</b>						
Chemical Oxygen Demand			103.5		%		75-125	19-JAN-22
<b>COLOUR-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5696477</b>							
<b>WG3685241-3</b>	<b>DUP</b>	<b>L2678895-16</b>						
Color, True		128	127		CU	0.2	20	14-JAN-22
<b>WG3685236-2</b>	<b>LCS</b>							
Color, True			101.0		%		85-115	14-JAN-22
<b>WG3685241-2</b>	<b>LCS</b>							



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



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



### Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

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



### Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

Page 5 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
<b>ALK-MISA-TB Effluent</b>								
<b>Batch R5696736</b>								
<b>WG3685228-2</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			99.6		%		85-115	14-JAN-22
<b>WG3685226-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	14-JAN-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	14-JAN-22
<b>WG3685228-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			0.4		mg/L		2	14-JAN-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	14-JAN-22
<b>CN-FREE-MISA-CFA-WT Effluent</b>								
<b>Batch R5699120</b>								
<b>WG3685759-18</b>	<b>DUP</b>	<b>WG3685759-17</b>						
Cyanide, Free		0.0003	<0.0001	RPD-NA	mg/L	N/A	20	17-JAN-22
<b>WG3685759-3</b>	<b>DUP</b>	<b>WG3685759-13</b>						
Cyanide, Free		0.0007	0.0007	RPD-NA	mg/L	N/A	20	17-JAN-22
<b>WG3685759-16</b>	<b>LCS</b>							
Cyanide, Free			99.8		%		80-120	17-JAN-22
<b>WG3685759-2</b>	<b>LCS</b>							
Cyanide, Free			109.3		%		80-120	17-JAN-22
<b>WG3685759-1</b>	<b>MB</b>							
Cyanide, Free			0.0003		mg/L		0.002	17-JAN-22
<b>WG3685759-15</b>	<b>MB</b>							
Cyanide, Free			0.0002		mg/L		0.002	17-JAN-22
<b>WG3685759-19</b>	<b>MS</b>	<b>WG3685759-17</b>						
Cyanide, Free			90.1		%		75-125	17-JAN-22
<b>WG3685759-4</b>	<b>MS</b>	<b>WG3685759-13</b>						
Cyanide, Free			106.3		%		75-125	17-JAN-22
<b>CN-T-MISA-CFA-WT Effluent</b>								
<b>Batch R5699120</b>								
<b>WG3685759-18</b>	<b>DUP</b>	<b>WG3685759-17</b>						
Cyanide, Total		0.0034	0.0034		mg/L	0.9	20	17-JAN-22
<b>WG3685759-3</b>	<b>DUP</b>	<b>WG3685759-13</b>						
Cyanide, Total		0.0008	0.0008	RPD-NA	mg/L	N/A	20	17-JAN-22
<b>WG3685759-16</b>	<b>LCS</b>							
Cyanide, Total			93.1		%		80-120	17-JAN-22
<b>WG3685759-2</b>	<b>LCS</b>							
Cyanide, Total			95.7		%		80-120	17-JAN-22
<b>WG3685759-1</b>	<b>MB</b>						0.002	



## Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

Page 6 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
<b>CN-T-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch R5699120</b>								
<b>WG3685759-1</b>	<b>MB</b>							
	Cyanide, Total		<0.0002		mg/L		0.002	17-JAN-22
<b>WG3685759-15</b>	<b>MB</b>							
	Cyanide, Total		<0.0002		mg/L		0.002	17-JAN-22
<b>WG3685759-19</b>	<b>MS</b>	<b>WG3685759-17</b>						
	Cyanide, Total		90.0		%		75-125	17-JAN-22
<b>WG3685759-4</b>	<b>MS</b>	<b>WG3685759-13</b>						
	Cyanide, Total		96.2		%		75-125	17-JAN-22
<b>CN-WAD-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch R5699120</b>								
<b>WG3685759-18</b>	<b>DUP</b>	<b>WG3685759-17</b>						
	Cyanide, Weak Acid Diss	0.0002	<0.0001	RPD-NA	mg/L	N/A	20	17-JAN-22
<b>WG3685759-3</b>	<b>DUP</b>	<b>WG3685759-13</b>						
	Cyanide, Weak Acid Diss	0.0004	0.0004	RPD-NA	mg/L	N/A	20	17-JAN-22
<b>WG3685759-16</b>	<b>LCS</b>							
	Cyanide, Weak Acid Diss		108.0		%		80-120	17-JAN-22
<b>WG3685759-2</b>	<b>LCS</b>							
	Cyanide, Weak Acid Diss		107.5		%		80-120	17-JAN-22
<b>WG3685759-1</b>	<b>MB</b>							
	Cyanide, Weak Acid Diss		<0.0001		mg/L		0.002	17-JAN-22
<b>WG3685759-15</b>	<b>MB</b>							
	Cyanide, Weak Acid Diss		<0.0001		mg/L		0.002	17-JAN-22
<b>WG3685759-19</b>	<b>MS</b>	<b>WG3685759-17</b>						
	Cyanide, Weak Acid Diss		107.1		%		75-125	17-JAN-22
<b>WG3685759-4</b>	<b>MS</b>	<b>WG3685759-13</b>						
	Cyanide, Weak Acid Diss		106.2		%		75-125	17-JAN-22
<b>DOC-WT</b>		<b>Effluent</b>						
<b>Batch R5701884</b>								
<b>WG3685467-3</b>	<b>DUP</b>	<b>WG3685467-5</b>						
	Dissolved Organic Carbon	15.1	15.7		mg/L	3.6	25	19-JAN-22
<b>WG3685467-2</b>	<b>LCS</b>							
	Dissolved Organic Carbon		98.1		%		70-130	19-JAN-22
<b>WG3685467-1</b>	<b>MB</b>							
	Dissolved Organic Carbon		<0.50		mg/L		0.5	19-JAN-22
<b>Batch R5703198</b>								
<b>WG3686930-3</b>	<b>DUP</b>	<b>L2678892-1</b>						
	Dissolved Organic Carbon	22.7	24.0		mg/L	5.5	25	20-JAN-22
<b>WG3686930-2</b>	<b>LCS</b>							



### Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

Page 7 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
<b>DOC-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5703198</b>							
<b>WG3686930-2</b>	<b>LCS</b>							
Dissolved Organic Carbon			104.1		%		70-130	20-JAN-22
<b>WG3686930-1</b>	<b>MB</b>							
Dissolved Organic Carbon			<0.50		mg/L		0.5	20-JAN-22
<b>EC-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5696736</b>							
<b>WG3685228-3</b>	<b>DUP</b>	<b>L2678895-7</b>						
Conductivity (EC)		70.0	67.4		uS/cm	3.8	10	14-JAN-22
<b>WG3685226-2</b>	<b>LCS</b>							
Conductivity (EC)			100.9		%		90-110	14-JAN-22
<b>WG3685228-2</b>	<b>LCS</b>							
Conductivity (EC)			100.0		%		90-110	14-JAN-22
<b>WG3685226-1</b>	<b>MB</b>							
Conductivity (EC)			0.4		uS/cm		2	14-JAN-22
<b>WG3685228-1</b>	<b>MB</b>							
Conductivity (EC)			0.2		uS/cm		2	14-JAN-22
<b>HG-DIS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5698988</b>							
<b>WG3685996-3</b>	<b>DUP</b>	<b>L2678892-1</b>						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-JAN-22
<b>WG3685996-2</b>	<b>LCS</b>							
Mercury (Hg)-Dissolved			95.9		%		80-120	18-JAN-22
<b>WG3685996-1</b>	<b>MB</b>							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	18-JAN-22
<b>WG3685996-4</b>	<b>MS</b>	<b>L2678892-2</b>						
Mercury (Hg)-Dissolved			105.5		%		70-130	18-JAN-22
<b>Batch</b>	<b>R5698991</b>							
<b>WG3685998-3</b>	<b>DUP</b>	<b>L2678895-17</b>						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-JAN-22
<b>WG3685998-2</b>	<b>LCS</b>							
Mercury (Hg)-Dissolved			96.5		%		80-120	18-JAN-22
<b>WG3685998-1</b>	<b>MB</b>							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	18-JAN-22
<b>WG3685998-4</b>	<b>MS</b>	<b>L2678895-17</b>						
Mercury (Hg)-Dissolved			109.0		%		70-130	18-JAN-22
<b>HG-TOT-WT</b>		<b>Effluent</b>						



## Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

Page 8 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
<b>HG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch R5699159</b>								
<b>WG3685999-3</b>	<b>DUP</b>	<b>L2678892-1</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-JAN-22
<b>WG3685999-2</b>	<b>LCS</b>							
Mercury (Hg)-Total			99.3		%		80-120	18-JAN-22
<b>WG3685999-1</b>	<b>MB</b>							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	18-JAN-22
<b>WG3685999-4</b>	<b>MS</b>	<b>L2678892-2</b>						
Mercury (Hg)-Total			92.6		%		70-130	18-JAN-22
<b>Batch R5699162</b>								
<b>WG3686000-3</b>	<b>DUP</b>	<b>L2678895-17</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-JAN-22
<b>WG3686000-2</b>	<b>LCS</b>							
Mercury (Hg)-Total			96.6		%		80-120	18-JAN-22
<b>WG3686000-1</b>	<b>MB</b>							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	18-JAN-22
<b>WG3686000-4</b>	<b>MS</b>	<b>L2678895-17</b>						
Mercury (Hg)-Total			97.1		%		70-130	18-JAN-22
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch R5697736</b>								
<b>WG3685216-3</b>	<b>DUP</b>	<b>L2678895-15</b>						
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

Page 9 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch R5697736</b>								
<b>WG3685216-3 DUP</b>		<b>L2678895-15</b>						
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
<b>WG3685216-2 LCS</b>								
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

Page 10 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5697736</b>							
<b>WG3685216-2 LCS</b>								
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
<b>WG3685216-6 LCS</b>								
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

Page 11 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5697736</b>							
<b>WG3685216-6</b>	<b>LCS</b>							
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

Page 12 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5697736</b>							
<b>WG3685216-6</b>	<b>LCS</b>							
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
<b>WG3685216-1</b>	<b>MB</b>							
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

Page 13 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5697736</b>							
<b>WG3685216-1 MB</b>								
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
<b>WG3685216-5 MB</b>								
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

Page 14 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
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5697736</b>							
<b>WG3685216-5 MB</b>								
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
<b>WG3685216-4 MS</b>		<b>L2678895-16</b>						
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

Page 15 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5697736</b>							
<b>WG3685216-4 MS</b>	<b>L2678895-16</b>							
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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5697683</b>							
<b>WG3685144-3 DUP</b>	<b>L2678895-5</b>							
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

Page 16 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch R5697683</b>								
<b>WG3685144-3 DUP</b>		<b>L2678895-5</b>						
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
<b>WG3685144-7 DUP</b>		<b>L2678895-16</b>						
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

Page 17 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5697683</b>							
<b>WG3685144-7</b>	<b>DUP</b>	<b>L2678895-16</b>						
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



## Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

Page 18 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5697683</b>							
<b>WG3685144-7</b>	<b>DUP</b>	<b>L2678895-16</b>						
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
<b>WG3685144-2</b>	<b>LCS</b>							
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

Page 19 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5697683</b>							
<b>WG3685144-2 LCS</b>								
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
<b>WG3685144-6 LCS</b>								
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

Page 20 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5697683</b>							
<b>WG3685144-6 LCS</b>								
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
<b>WG3685144-1 MB</b>								
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

Page 21 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5697683</b>							
<b>WG3685144-1</b>	<b>MB</b>							
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
<b>WG3685144-5</b>	<b>MB</b>							
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

Page 22 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5697683</b>							
<b>WG3685144-5 MB</b>								
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
<b>WG3685144-4 MS</b>		<b>L2678895-6</b>						
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

Page 23 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5697683</b>							
<b>WG3685144-4 MS</b>		<b>L2678895-6</b>						
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

Page 24 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5697683</b>							
<b>WG3685144-4 MS</b>		<b>L2678895-6</b>						
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
<b>WG3685144-8 MS</b>		<b>L2678895-17</b>						
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

Page 25 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5697683</b>							
<b>WG3685144-8 MS</b>		<b>L2678895-17</b>						
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
<b>NH3-MISA-F-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5703919</b>							
<b>WG3685969-3 DUP</b>		<b>L2678895-16</b>						
Ammonia, Total (as N)		0.084	0.084		mg/L	1.0	20	21-JAN-22
<b>WG3685967-2 LCS</b>			96.1		%		85-115	21-JAN-22
<b>WG3685969-2 LCS</b>			95.8		%		85-115	21-JAN-22
<b>WG3685967-1 MB</b>			<0.002		mg/L		0.005	21-JAN-22
<b>WG3685969-1 MB</b>			<0.002		mg/L		0.005	21-JAN-22
<b>WG3685967-4 MS</b>		<b>L2678892-1</b>	N/A	MS-B	%		-	21-JAN-22
<b>WG3685969-4 MS</b>		<b>L2678895-17</b>	105.0		%		75-125	21-JAN-22
<b>NO2-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5697440</b>							
<b>WG3685250-3 DUP</b>		<b>L2678895-1</b>						
Nitrite (as N)		<0.001	<0.001	RPD-NA	mg/L	N/A	20	15-JAN-22
<b>WG3685250-2 LCS</b>			101.0		%		90-110	15-JAN-22
<b>WG3685250-1 MB</b>			<0.001		mg/L		0.01	15-JAN-22
<b>WG3685250-4 MS</b>		<b>L2678895-2</b>	99.3		%		75-125	15-JAN-22
<b>NO3-MISA-IC-TB</b>		<b>Effluent</b>						



## Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

Page 26 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
<b>NO3-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5697440</b>							
<b>WG3685250-3</b>	<b>DUP</b>	<b>L2678895-1</b>						
Nitrate (as N)		0.004	<0.002	RPD-NA	mg/L	N/A	20	15-JAN-22
<b>WG3685250-2</b>	<b>LCS</b>							
Nitrate (as N)			100.5		%		90-110	15-JAN-22
<b>WG3685250-1</b>	<b>MB</b>							
Nitrate (as N)			0.002		mg/L		0.02	15-JAN-22
<b>WG3685250-4</b>	<b>MS</b>	<b>L2678895-2</b>						
Nitrate (as N)			103.1		%		75-125	15-JAN-22
<b>OGG-TOT-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5701886</b>							
<b>WG3686818-2</b>	<b>LCS</b>							
Oil and Grease, Total			88.0		%		50-150	20-JAN-22
<b>WG3686818-1</b>	<b>MB</b>							
Oil and Grease, Total			0.4		mg/L		1	20-JAN-22
<b>PH-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5696736</b>							
<b>WG3685228-3</b>	<b>DUP</b>	<b>L2678895-7</b>						
pH		7.20	7.22	J	pH	0.02	0.2	14-JAN-22
<b>WG3685226-2</b>	<b>LCS</b>							
pH			6.91		pH		6.9-7.1	14-JAN-22
<b>WG3685228-2</b>	<b>LCS</b>							
pH			6.93		pH		6.9-7.1	14-JAN-22
<b>SO4-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5697440</b>							
<b>WG3685250-3</b>	<b>DUP</b>	<b>L2678895-1</b>						
Sulfate (SO4)		0.15	0.10	RPD-NA	mg/L	N/A	20	15-JAN-22
<b>WG3685250-2</b>	<b>LCS</b>							
Sulfate (SO4)			101.1		%		90-110	15-JAN-22
<b>WG3685250-1</b>	<b>MB</b>							
Sulfate (SO4)			<0.05		mg/L		0.3	15-JAN-22
<b>WG3685250-4</b>	<b>MS</b>	<b>L2678895-2</b>						
Sulfate (SO4)			102.2		%		75-125	15-JAN-22
<b>TDS-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5696891</b>							
<b>WG3685206-2</b>	<b>LCS</b>							
Total Dissolved Solids			99.4		%		85-115	14-JAN-22
<b>WG3685206-1</b>	<b>MB</b>							



## Quality Control Report

Workorder: L2678895

Report Date: 23-FEB-22

Page 27 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
<b>TDS-MISA-TB</b>								
<b>Effluent</b>								
<b>Batch</b>	<b>R5696891</b>							
<b>WG3685206-1</b>	<b>MB</b>							
Total Dissolved Solids			<2		mg/L		10	14-JAN-22
<b>Batch</b>	<b>R5698940</b>							
<b>WG3685798-3</b>	<b>DUP</b>	<b>L2678895-17</b>						
Total Dissolved Solids		<2	<2	RPD-NA	mg/L	N/A	20	17-JAN-22
<b>WG3685798-2</b>	<b>LCS</b>							
Total Dissolved Solids			97.5		%		85-115	17-JAN-22
<b>WG3685798-1</b>	<b>MB</b>							
Total Dissolved Solids			4		mg/L		10	17-JAN-22
<b>Batch</b>	<b>R5699359</b>							
<b>WG3685512-2</b>	<b>LCS</b>							
Total Dissolved Solids			97.4		%		85-115	17-JAN-22
<b>WG3685512-1</b>	<b>MB</b>							
Total Dissolved Solids			<2		mg/L		10	17-JAN-22
<b>TSS-MISA-TB</b>								
<b>Effluent</b>								
<b>Batch</b>	<b>R5696890</b>							
<b>WG3685201-2</b>	<b>LCS</b>							
Total Suspended Solids			94.2		%		85-115	14-JAN-22
<b>WG3685201-1</b>	<b>MB</b>							
Total Suspended Solids			1.5		mg/L		3	14-JAN-22
<b>Batch</b>	<b>R5698811</b>							
<b>WG3685799-3</b>	<b>DUP</b>	<b>L2678895-17</b>						
Total Suspended Solids		<0.5	<0.5	RPD-NA	mg/L	N/A	20	17-JAN-22
<b>WG3685799-2</b>	<b>LCS</b>							
Total Suspended Solids			101.7		%		85-115	17-JAN-22
<b>WG3685799-1</b>	<b>MB</b>							
Total Suspended Solids			<0.5		mg/L		3	17-JAN-22
<b>Batch</b>	<b>R5698837</b>							
<b>WG3685514-8</b>	<b>LCS</b>							
Total Suspended Solids			107.3		%		85-115	17-JAN-22
<b>WG3685514-7</b>	<b>MB</b>							
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

Page 28 of 30

## 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

**Hold Time Exceedances:**

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Anions and Nutrients</b>							
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,

 FOR

ALS Environmental  
Katie M. O'Brien  
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: \_\_\_\_\_ Date Shipped: \_\_\_\_\_  
Received By: [Signature] 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?					X	
Tracking number:						
2. Are custody seals on <b>shipping</b> containers intact?				X		
3. Are custody seals on <b>sample</b> 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?				IR gun used*:	#5	
				RAD ONLY		X
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? <b>YES</b> (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: *AKM* 1/28/22

ORIGIN ID:YQTA (807) 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

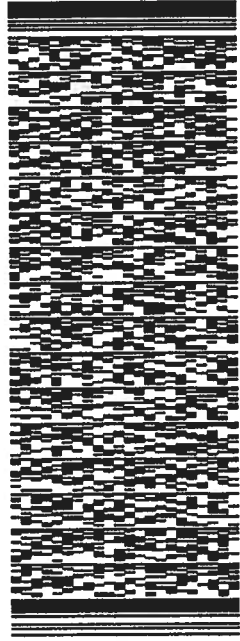
**TO RECEIVING**  
**ALS ENVIRONMENTAL FT COLLINS**  
**225 COMMERCE DR**

**FORT COLLINS CO 80524**

REF: (970) 490-1511

PO INV/ DEPT

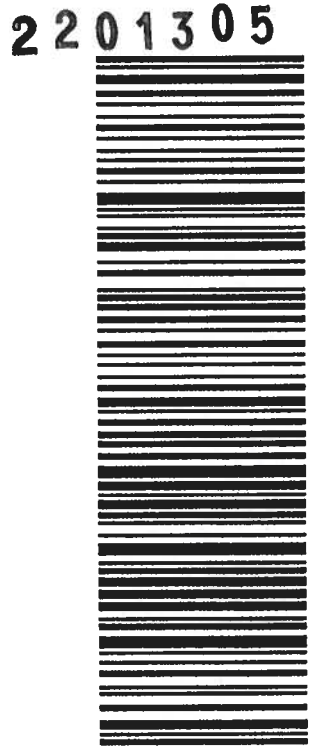
**DO NOT OPEN (US)**  
56D,J4F289/FE4A



J221022010502uv

TRK# 7757 8553 2586  
0430  
4:30P  
INTL \*\* 2DAY \*\*

**SAFTCA**  
CO-US 80524  
**DEN**



After printing this label:  
**CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH**

- 1. Fold the printed page along the horizontal line.
- 2. Place label in shipping pouch and affix it to your shipment.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

**LEGAL TERMS AND CONDITIONS OF FEDEX SHIPPING DEFINITIONS.** On this Air Waybill, "we", "our", "us", and "FedEx" refer to Federal Express Corporation, its subsidiaries and branches and their respective employees, agents, and independent contractors. The terms "you" and "your" refer to the shipper, its employees, principals and agents. If your shipment originates outside the United States, your contract of carriage is with the FedEx subsidiary, branch or independent contractor who originally accepts the shipment from you. The term "package" means any container or envelope that is accepted by us for delivery, including any such items tendered by you utilizing our automated systems, meters, manifests or waybills. The term "shipment" means all packages which are tendered to and accepted by us on a single Air Waybill. **AIR CARRIAGE NOTICE.** For any international shipments by air, the Warsaw Convention, as amended, may be applicable. The Warsaw Convention, as amended, will then govern and in most cases limit FedEx's liability for loss, delay of, or damage to your shipment. The Warsaw Convention, as amended, limits FedEx's liability. For example in the U.S., liability is limited to \$9.07 per pound (20\$ per kilogram), unless a higher value for carriage is declared as described below and you pay any applicable supplementary charges. The interpretation and operation of the Warsaw Convention's liability limits may vary in each country. There are no specific stopping places which are agreed to and FedEx reserves the right to route the shipment in any way FedEx deems appropriate. **ROAD TRANSPORT NOTICE.** Shipments transported solely by road to or from a country which is a party to the Warsaw Convention or the Contract for the International Carriage of Goods by Road (the "CMR") are subject to the terms and conditions of the CMR, notwithstanding any other provision of this Air Waybill to the contrary. For those shipments transported solely by road, if a conflict arises between the provisions of the CMR and this Air Waybill, the terms of the CMR shall prevail. **LIMITATION OF LIABILITY.** If not governed by the Warsaw Convention, the CMR, or other international treaties, laws, other government regulations, orders, or requirements, FedEx's maximum liability for damage, loss, delay, shortage, mis-delivery, non-delivery, misinformation or failure to provide information in connection with your shipment is limited by this Agreement and as set out in the terms and conditions of the contract of carriage. Please refer to the contract of carriage set forth in the applicable FedEx Service Guide or its equivalent to determine the contractual limitation. FedEx does not provide cargo liability or all-risk insurance, but you may pay an additional charge for each additional U.S. \$100 (or equivalent local currency for the country of origin) of declared value for carriage. If a higher value for carriage is declared and the additional charge is paid, FedEx's maximum liability will be the lesser of the declared value for carriage or your actual damages. **LIABILITIES NOT ASSUMED. IN ANY EVENT, FEDEX WON'T BE LIABLE FOR ANY DAMAGES, WHETHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL IN EXCESS OF THE DECLARED VALUE FOR CARRIAGE (INCLUDING BUT NOT LIMITED TO LOSS OF INCOME OR PROFITS) OR THE ACTUAL VALUE OF THE SHIPMENT, IF LOWER, WHETHER OR NOT FEDEX HAD ANY KNOWLEDGE THAT SUCH DAMAGES MIGHT BE INCURRED.** FedEx won't be liable for your acts or omissions, including but not limited to incorrect declaration of cargo, improper or insufficient packaging, securing, marking or addressing of the shipment, or for the acts or omissions of the recipient or anyone else with an interest in the shipment or violations by any party of the terms of this agreement. FedEx won't be liable for damage, loss, delay, shortage, mis-delivery, non-delivery, misinformation or failure to provide information in connection with shipments of cash, currency or other prohibited items or in instances beyond our control, such as acts of God, perils of the air, weather conditions, mechanical delays, acts of public enemies, war, strike, civil commotion, or acts or omissions of public authorities (including customs and health officials) with actual or apparent authority. **NO WARRANTY.** We make no warranties, express or implied. **CLAIMS FOR LOSS, DAMAGE OR DELAY. ALL CLAIMS MUST BE MADE IN WRITING AND WITHIN STRICT TIME LIMITS. SEE OUR TARIFF, APPLICABLE FEDEX SERVICE GUIDE, OR STANDARD CONDITIONS OF CARRIAGE FOR DETAILS.** The Warsaw Convention provides specific written claims procedures for damage, delay or non-delivery of your shipment. Moreover, the interpretation and operation of the Warsaw Convention's claims provisions may vary in each country. Refer to the Convention to determine the claims period for your shipment. The right to damages against us shall be extinguished unless an action is brought within two years, as set forth in the Convention. FedEx is not obligated to act on any claim until all transportation charges have been paid. The claim amount may not be deducted from the transportation charges. If the recipient accepts the shipment without noting any damage on the delivery record, FedEx will assume the shipment was delivered in good condition. In order for us to consider a claim for damage, the contents, original shipping carton and packing must be made available to us for inspection. **MANDATORY LAW.** Insofar as any provision contained or referred to in this Air Waybill may be contrary to any applicable international treaties, laws, government regulations, orders or requirements such provisions shall remain in effect as a part of our agreement to the extent that it is not overridden. 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](http://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
<b>Radium-226 by Radon Emanation - Method 903.1</b>			<b>SOP 783</b>		Prep Date: <b>2/1/2022</b>	PrepBy: <b>EJE</b>
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
<b>Radium-226 by Radon Emanation - Method 903.1</b>			<b>SOP 783</b>		Prep Date: <b>2/1/2022</b>	PrepBy: <b>EJE</b>
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  
**Project:** L2678895  
**Sample ID:** L2678895-12  
**Legal Location:**  
**Collection Date:** 1/11/2022

**Date:** 10-Feb-22  
**Work Order:** 2201305  
**Lab ID:** 2201305-3  
**Matrix:** WATER  
**Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Radium-226 by Radon Emanation - Method 903.1</b>			<b>SOP 783</b>		Prep Date: <b>2/1/2022</b>	PrepBy: <b>EJE</b>
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

**Date:** 10-Feb-22

**Project:** L2678895

**Work Order:** 2201305

**Sample ID:** L2678895-13

**Lab ID:** 2201305-4

**Legal Location:**

**Matrix:** WATER

**Collection Date:** 1/11/2022

**Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Radium-226 by Radon Emanation - Method 903.1</b>			<b>SOP 783</b>		Prep Date: <b>2/1/2022</b>	PrepBy: <b>EJE</b>
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		

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 1/17/2022 8:51:00 AM <b>COC Number:</b> ALS-445783691						<b>Containers</b> SW Kit Ra-226 Bottle									Number of Containers	
						<b>Filtered</b> N N										
						<b>Preservatives</b>										
						NG-SW-P-TB RA226-MMER-BE										
Sample Code				Date and Time	Matrix										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	Date/Time	Shipping Details	ATTN	Special Instructions:
Shipped by	1/17/2022 8:51:00 AM	<b>Method of Shipment:</b> Courier <b>On Ice:</b> yes / no <b>Shipped:</b> Air/Ground <b>Lab Name:</b> ALS Thunder Bay <b>Lab Phone:</b>		<b>Email Invoice to:</b> rainyriver.accounts1@newgold.com <b>Email Report to:</b> rainyriver.labresults@newgold.com
Received by				

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 1/17/2022 8:51:00 AM <b>COC Number:</b> ALS-445783691						<b>Containers</b> SW Kit Ra-226 Bottle									<b>Number of Containers</b>	
						<b>Filtered</b> N N										
						<b>Preservatives</b>										
						NG-SW-P-TB RA226-MMER-BE										
Sample Code				Date and Time	Matrix	NG-SW-P-TB	RA226-MMER-BE									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	

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

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 1/17/2022 8:51:00 AM <b>COC Number:</b> ALS-445783691						<b>Containers</b> SW Kit Ra-226 Bottle									Number of Containers	
						<b>Filtered</b> N N										
						<b>Preservatives</b>										
						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	<b>Method of Shipment:</b> Courier <b>On Ice:</b> yes / no <b>Shipped:</b> Air/Ground <b>Lab Name:</b> ALS Thunder Bay <b>Lab Phone:</b>		<b>Email Invoice to:</b> rainyriver.accounts1@newgold.com <b>Email Report to:</b> rainyriver.labresults@newgold.com
Received by				

<b>Are samples taken from a Regulated DW System?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>Are samples for human consumption / use?</b> 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	<b>Method of Shipment:</b> Courier <b>On Ice:</b> yes / no <b>Shipped:</b> Air/Ground <b>Lab Name:</b> ALS Thunder Bay <b>Lab Phone:</b>		<b>Email Invoice to:</b> rainyriver.accounts1@newgold.com <b>Email Report to:</b> 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:

---

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
L2685225-1 FB_SW_20220208							
Sampled By: Client on 08-FEB-22 @ 12:00							
Matrix: SW							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Total Dissolved Solids	208		20	mg/L		15-FEB-22	R5725206
Turbidity	7.31		0.10	NTU		11-FEB-22	R5721177
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
Sulfate (SO4)	6.20		0.30	mg/L		14-FEB-22	R5723307
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
Cyanide, Free	0.0010	<DL	0.0020	mg/L		14-FEB-22	R5723843
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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							
<b>Organic / Inorganic Carbon</b>							
Total Organic Carbon	11.3		0.50	mg/L		15-FEB-22	R5725016
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
Zirconium (Zr)-Total	0.000100	<DL	0.0010	mg/L		15-FEB-22	R5725076
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							

\* Refer 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							
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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							
<b>Field Tests</b>							
Temperature, Client Supplied	.51		0	Degree C		12-FEB-22	R5721389
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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 <sub>3</sub> )	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 <sub>3</sub> )	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 <sub>3</sub> )	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
<b>BOD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5725476</b>							
<b>WG3695137-8</b>	<b>DUP</b>	<b>L2685225-9</b>						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	11-FEB-22
<b>WG3695137-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			103.9		%		85-115	11-FEB-22
<b>WG3695137-6</b>	<b>LCS</b>							
Biochemical Oxygen Demand			108.9		%		85-115	11-FEB-22
<b>WG3695137-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	11-FEB-22
<b>WG3695137-5</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	11-FEB-22
<b>CL-L-IC-N-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5723307</b>							
<b>WG3695326-3</b>	<b>DUP</b>	<b>L2685197-1</b>						
Chloride (Cl)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	14-FEB-22
<b>WG3695326-2</b>	<b>LCS</b>							
Chloride (Cl)			99.9		%		90-110	14-FEB-22
<b>WG3695326-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	14-FEB-22
<b>WG3695326-4</b>	<b>MS</b>	<b>L2685197-2</b>						
Chloride (Cl)			99.5		%		75-125	14-FEB-22
<b>COD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5725556</b>							
<b>WG3695141-3</b>	<b>DUP</b>	<b>L2684929-2</b>						
Chemical Oxygen Demand		44	43		mg/L	2.1	20	16-FEB-22
<b>WG3695141-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			105.8		%		85-115	16-FEB-22
<b>WG3695141-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	16-FEB-22
<b>WG3695141-4</b>	<b>MS</b>	<b>L2684929-3</b>						
Chemical Oxygen Demand			100.1		%		75-125	16-FEB-22
<b>COLOUR-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5721099</b>							
<b>WG3695323-3</b>	<b>DUP</b>	<b>L2685225-1</b>						
Color, True		<2.0	<2.0	RPD-NA	CU	N/A	20	11-FEB-22
<b>WG3695323-2</b>	<b>LCS</b>							
Color, True			100.3		%		85-115	11-FEB-22
<b>WG3695323-1</b>	<b>MB</b>							



### Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

Page 2 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
<b>COLOUR-TB</b>		<b>Water</b>						
Batch	R5721099							
WG3695323-1	MB							
Color, True			<2.0		CU		2	11-FEB-22
<b>F-IC-N-TB</b>		<b>Water</b>						
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
<b>PO4-DO-COL-TB</b>		<b>Water</b>						
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
<b>TKN-F-TB</b>		<b>Water</b>						
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

Page 5 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
<b>CN-FREE-MISA-CFA-WT Effluent</b>								
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
<b>CN-T-MISA-CFA-WT Effluent</b>								
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
<b>CN-WAD-MISA-CFA-WT Effluent</b>								
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
<b>DOC-WT Effluent</b>								
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
<b>EC-MISA-TB Effluent</b>								
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
<b>HG-DIS-WT Effluent</b>								



### Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

Page 6 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
<b>HG-DIS-WT</b>		<b>Effluent</b>						
<b>Batch R5723759</b>								
<b>WG3695840-3</b>	<b>DUP</b>	<b>L2685225-1</b>						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	15-FEB-22
<b>WG3695840-2</b>	<b>LCS</b>							
Mercury (Hg)-Dissolved			98.4		%		80-120	15-FEB-22
<b>WG3695840-1</b>	<b>MB</b>							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	15-FEB-22
<b>WG3695840-4</b>	<b>MS</b>	<b>L2685225-2</b>						
Mercury (Hg)-Dissolved			93.9		%		70-130	15-FEB-22
<b>HG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch R5723764</b>								
<b>WG3695844-3</b>	<b>DUP</b>	<b>L2685225-1</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	15-FEB-22
<b>WG3695844-2</b>	<b>LCS</b>							
Mercury (Hg)-Total			101.0		%		80-120	15-FEB-22
<b>WG3695844-1</b>	<b>MB</b>							
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	15-FEB-22
<b>WG3695844-4</b>	<b>MS</b>	<b>L2685225-2</b>						
Mercury (Hg)-Total			93.1		%		70-130	15-FEB-22
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch R5725323</b>								
<b>WG3695922-3</b>	<b>DUP</b>	<b>L2685225-7</b>						
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

Page 7 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5725323</b>							
<b>WG3695922-3</b>	<b>DUP</b>	<b>L2685225-7</b>						
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
<b>WG3695922-2</b>	<b>LCS</b>							
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

Page 8 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5725323</b>							
<b>WG3695922-2</b>	<b>LCS</b>							
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
<b>WG3695922-1</b>	<b>MB</b>							
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

Page 9 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
<b>MET-D-MISA-TB</b>	<b>Effluent</b>							
<b>Batch</b>	<b>R5725323</b>							
<b>WG3695922-1 MB</b>								
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

Page 10 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5725323</b>							
<b>WG3695922-1</b>	<b>MB</b>							
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
<b>WG3695922-5</b>	<b>MB</b>							
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

Page 11 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
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5725323</b>							
<b>WG3695922-5</b>	<b>MB</b>							
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
<b>WG3695922-4</b>	<b>MS</b>	<b>L2685225-8</b>						
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

Page 12 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
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5725323</b>							
<b>WG3695922-4 MS</b>		<b>L2685225-8</b>						
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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5725076</b>							
<b>WG3695742-11 DUP</b>		<b>L2685225-11</b>						
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

Page 13 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5725076</b>							
<b>WG3695742-11</b>	<b>DUP</b>	<b>L2685225-11</b>						
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
<b>WG3695742-10</b>		<b>LCS</b>						
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

Page 14 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5725076</b>							
<b>WG3695742-10 LCS</b>								
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
<b>WG3695742-9 MB</b>								
Aluminum (Al)-Total			0.0010		mg/L		0.005	15-FEB-22



### Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

Page 15 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5725076</b>							
<b>WG3695742-9 MB</b>								
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

Page 16 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5725076</b>							
<b>WG3695742-9 MB</b>								
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
<b>WG3695742-12 MS</b>		<b>L2685225-12</b>						
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

Page 17 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5725076</b>							
<b>WG3695742-12 MS</b>		<b>L2685225-12</b>						
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
<b>NH3-MISA-F-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5721097</b>							
<b>WG3695262-2 LCS</b>								
Ammonia, Total (as N)			97.0		%		85-115	11-FEB-22
<b>WG3695262-1 MB</b>								
Ammonia, Total (as N)			<0.002		mg/L		0.005	11-FEB-22
<b>NO2-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5723307</b>							
<b>WG3695326-1 MB</b>								
Nitrite (as N)			0.002		mg/L		0.01	14-FEB-22
<b>NO3-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5723307</b>							
<b>WG3695326-2 LCS</b>								
Nitrate (as N)			105.7		%		90-110	14-FEB-22
<b>WG3695326-1 MB</b>								
Nitrate (as N)			<0.002		mg/L		0.02	14-FEB-22
<b>OGG-TOT-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5723700</b>							
<b>WG3696055-2 LCS</b>								
Oil and Grease, Total			96.5		%		50-150	15-FEB-22
<b>WG3696055-1 MB</b>								
Oil and Grease, Total			0.6		mg/L		1	15-FEB-22
<b>PH-MISA-TB</b>								
	<b>Effluent</b>							



## Quality Control Report

Workorder: L2685225

Report Date: 16-MAR-22

Page 18 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
<b>PH-MISA-TB</b>	<b>Effluent</b>							
Batch	R5721523							
WG3695313-2	LCS							
pH			6.94		pH		6.9-7.1	11-FEB-22
<b>SO4-MISA-IC-TB</b>	<b>Effluent</b>							
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
<b>TDS-MISA-TB</b>	<b>Effluent</b>							
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
<b>TSS-MISA-TB</b>	<b>Effluent</b>							
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

Page 19 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
<b>TSS-MISA-TB</b>	<b>Effluent</b>							
<b>Batch</b>	<b>R5725288</b>							
<b>WG3696384-2</b>	<b>LCS</b>							
Total Suspended Solids			105.2		%		85-115	15-FEB-22
<b>WG3696384-1</b>	<b>MB</b>							
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

Page 20 of 22

## 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
<b>Physical Tests</b>							
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
<b>Leachable Anions &amp; Nutrients</b>							
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
<b>Organic / Inorganic Carbon</b>							
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

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

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

AJ





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

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

<b>Drinking Water (DW) Samples (client use)</b>
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			

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:

---

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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.61		0.10	pH		18-FEB-22	R5727647
Temperature, Client Supplied	.37		0	Degree C		18-FEB-22	R5727647
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Turbidity	7.05		0.10	NTU		18-FEB-22	R5727635
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	8.03		0.10	pH		18-FEB-22	R5727647
Temperature, Client Supplied	<0		0	Degree C		18-FEB-22	R5727647
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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 &amp; 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<sub>3</sub>) 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 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
<b>PO4-DO-COL-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5728197</b>							
<b>WG3697832-3</b>	<b>DUP</b>	<b>L2686951-1</b>						
Orthophosphate-Dissolved (as P)		0.0088	0.0096		mg/L	8.7	20	22-FEB-22
<b>WG3697832-2</b>	<b>LCS</b>							
Orthophosphate-Dissolved (as P)			96.2		%		80-120	22-FEB-22
<b>WG3697832-1</b>	<b>MB</b>							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	22-FEB-22
<b>WG3697832-4</b>	<b>MS</b>	<b>L2686951-2</b>						
Orthophosphate-Dissolved (as P)			102.9		%		70-130	22-FEB-22
<b>TKN-F-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5729072</b>							
<b>WG3697862-3</b>	<b>DUP</b>	<b>L2686750-3</b>						
Total Kjeldahl Nitrogen		20.9	22.3		mg/L	6.5	20	24-FEB-22
<b>WG3697862-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			101.5		%		75-125	24-FEB-22
<b>WG3697862-1</b>	<b>MB</b>							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	24-FEB-22
<b>WG3697862-4</b>	<b>MS</b>	<b>L2686757-1</b>						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	24-FEB-22
<b>TOC-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5728915</b>							
<b>WG3698393-3</b>	<b>DUP</b>	<b>L2686909-5</b>						
Total Organic Carbon		13.3	13.5		mg/L	1.4	20	23-FEB-22
<b>WG3698393-2</b>	<b>LCS</b>							
Total Organic Carbon			99.0		%		80-120	23-FEB-22
<b>WG3698393-1</b>	<b>MB</b>							
Total Organic Carbon			<0.50		mg/L		0.5	23-FEB-22
<b>WG3698393-4</b>	<b>MS</b>	<b>L2686909-5</b>						
Total Organic Carbon			N/A	MS-B	%		-	23-FEB-22
<b>TURBIDITY-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5727635</b>							
<b>WG3697937-3</b>	<b>DUP</b>	<b>L2686951-4</b>						
Turbidity		1.01	0.98		NTU	3.0	15	18-FEB-22
<b>WG3697937-2</b>	<b>LCS</b>							
Turbidity			101.5		%		85-115	18-FEB-22
<b>WG3697937-1</b>	<b>MB</b>							
Turbidity			<0.10		NTU		0.1	18-FEB-22
<b>ACY-MISA-TB</b>								
	<b>Effluent</b>							



## Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

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



### Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

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



### Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

Page 5 of 13

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
<b>HG-DIS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5729002</b>							
<b>WG3698423-4 MS</b>		<b>L2686951-2</b>						
Mercury (Hg)-Dissolved			94.6		%		70-130	24-FEB-22
<b>HG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5729003</b>							
<b>WG3698424-3 DUP</b>		<b>L2686951-1</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	24-FEB-22
<b>WG3698424-2 LCS</b>								
Mercury (Hg)-Total			94.8		%		80-120	24-FEB-22
<b>WG3698424-1 MB</b>								
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	24-FEB-22
<b>WG3698424-4 MS</b>		<b>L2686951-2</b>						
Mercury (Hg)-Total			94.6		%		70-130	24-FEB-22
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5728898</b>							
<b>WG3698886-2 LCS</b>								
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

Page 6 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5728898</b>							
<b>WG3698886-2 LCS</b>								
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
<b>WG3698886-1 MB</b>								
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

Page 7 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5728898</b>							
<b>WG3698886-1</b>	<b>MB</b>							
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

<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5728893</b>							
<b>WG3698370-2</b>	<b>LCS</b>							
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

Page 8 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5728893</b>							
<b>WG3698370-2</b>	<b>LCS</b>							
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

Page 9 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5728893</b>							
<b>WG3698370-2</b>	<b>LCS</b>							
Zirconium (Zr)-Total			97.4		%		80-120	23-FEB-22
<b>WG3698370-1</b>	<b>MB</b>							
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

Page 10 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch R5728893</b>								
<b>WG3698370-1 MB</b>								
	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
<b>NH3-MISA-F-TB</b>		<b>Effluent</b>						
<b>Batch R5727670</b>								
<b>WG3697859-2 LCS</b>								
	Ammonia, Total (as N)		97.4		%		85-115	18-FEB-22
<b>WG3697859-1 MB</b>								
	Ammonia, Total (as N)		0.006	B	mg/L		0.005	18-FEB-22
<b>Batch R5729580</b>								
<b>WG3698445-3 DUP</b>		<b>L2686636-12</b>						
	Ammonia, Total (as N)	0.012	0.012		mg/L	7.8	20	25-FEB-22
<b>WG3698445-2 LCS</b>								
	Ammonia, Total (as N)		99.9		%		85-115	25-FEB-22
<b>WG3698445-1 MB</b>								
	Ammonia, Total (as N)		0.002		mg/L		0.005	25-FEB-22
<b>WG3698445-4 MS</b>		<b>L2686956-1</b>						
	Ammonia, Total (as N)		104.0		%		75-125	25-FEB-22
<b>NO2-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch R5728002</b>								
<b>WG3697835-2 LCS</b>								
	Nitrite (as N)		95.4		%		90-110	18-FEB-22
<b>WG3697835-1 MB</b>								
	Nitrite (as N)		<0.001		mg/L		0.01	18-FEB-22
<b>WG3697835-4 MS</b>		<b>L2686951-3</b>						
	Nitrite (as N)		N/A	MS-B	%		-	18-FEB-22
<b>NO3-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch R5728002</b>								
<b>WG3697835-2 LCS</b>								
	Nitrate (as N)		98.5		%		90-110	18-FEB-22
<b>WG3697835-1 MB</b>								
	Nitrate (as N)		<0.002		mg/L		0.02	18-FEB-22



### Quality Control Report

Workorder: L2686956

Report Date: 22-MAR-22

Page 11 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
<b>NO3-MISA-IC-TB</b>	<b>Effluent</b>							
Batch	R5728002							
WG3697835-4	MS	L2686951-3						
Nitrate (as N)			N/A	MS-B	%		-	18-FEB-22
<b>OGG-TOT-WT</b>	<b>Effluent</b>							
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
<b>PH-MISA-TB</b>	<b>Effluent</b>							
Batch	R5728155							
WG3697823-2	LCS							
pH			6.93		pH		6.9-7.1	18-FEB-22
<b>SO4-MISA-IC-TB</b>	<b>Effluent</b>							
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
<b>TDS-MISA-TB</b>	<b>Effluent</b>							
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
<b>TSS-MISA-TB</b>	<b>Effluent</b>							
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

Page 12 of 13

## 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

Page 13 of 13

## Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Organic / Inorganic Carbon</b>							
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

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 2/17/2022 3:34:00 PM <b>COC Number:</b> ALS-446096489						<b>Containers</b>  <b>Filtered</b>  <b>Preservatives</b>		SW Kit	Re-226 Bottle								Number of Containers	Comments
						N	N											
						NG-SW-P-TB	RA226-MMER-BE											
Sample Code	DO	PH	TEMP	Date and Time	Matrix													
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:

---

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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Total Dissolved Solids	186		20	mg/L		14-MAR-22	R5743338
Turbidity	4.92		0.10	NTU		12-MAR-22	R5741294
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
Sulfate (SO4)	8.60		0.30	mg/L		15-MAR-22	R5744503
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
Cyanide, Free	<0.0001	<W	0.0020	mg/L		15-MAR-22	R5744479
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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							
<b>Organic / Inorganic Carbon</b>							
Total Organic Carbon	34.1		0.50	mg/L		18-MAR-22	R5748582
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
Zirconium (Zr)-Total	0.000884	<DL	0.0010	mg/L		21-MAR-22	R5748948
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							

\* Refer 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							
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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							
<b>Field Tests</b>							
Temperature, Client Supplied	.05		0	Degree C		13-MAR-22	R5741400
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Turbidity	12.3		0.10	NTU		12-MAR-22	R5741294
<b>Anions and Nutrients</b>							
Acidity (as CaCO <sub>3</sub> )	6.2		2.0	mg/L		15-MAR-22	R5744682
Alkalinity, Total (as CaCO <sub>3</sub> )	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 <sub>4</sub> )	5.70		0.30	mg/L		15-MAR-22	R5744503
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							

\* Refer 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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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 &amp; 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 <sub>3</sub> )	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 <sub>3</sub> )	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

Page 1 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>BOD-TB</b>								
	Water							
Batch	R5748531							
<b>WG3705428-3</b>	<b>DUP</b>	<b>L2691886-2</b>						
Biochemical Oxygen Demand		4.7	7.3	RPD-NA	mg/L	N/A	30	13-MAR-22
<b>WG3705428-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			104.2		%		85-115	13-MAR-22
<b>WG3705428-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	13-MAR-22
<b>CL-L-IC-N-TB</b>								
	Water							
Batch	R5744503							
<b>WG3705376-2</b>	<b>LCS</b>							
Chloride (Cl)			100.2		%		90-110	15-MAR-22
<b>WG3705376-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	15-MAR-22
<b>COD-TB</b>								
	Water							
Batch	R5746661							
<b>WG3705708-3</b>	<b>DUP</b>	<b>L2691886-1</b>						
Chemical Oxygen Demand		<10	<10	RPD-NA	mg/L	N/A	20	17-MAR-22
<b>WG3705708-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			108.3		%		85-115	17-MAR-22
<b>WG3705708-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	17-MAR-22
<b>WG3705708-4</b>	<b>MS</b>	<b>L2691886-2</b>						
Chemical Oxygen Demand			N/A	MS-B	%		-	17-MAR-22
<b>COLOUR-TB</b>								
	Water							
Batch	R5741280							
<b>WG3705374-3</b>	<b>DUP</b>	<b>L2691886-3</b>						
Color, True		97.7	98.7		CU	1.0	20	12-MAR-22
<b>WG3705374-2</b>	<b>LCS</b>							
Color, True			101.1		%		85-115	12-MAR-22
<b>WG3705374-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	12-MAR-22
<b>F-IC-N-TB</b>								
	Water							
Batch	R5744503							
<b>WG3705376-2</b>	<b>LCS</b>							
Fluoride (F)			106.9		%		90-110	15-MAR-22
<b>WG3705376-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	15-MAR-22
<b>TKN-F-TB</b>								
	Water							



## Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

Page 2 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>TKN-F-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5747456</b>							
<b>WG3705704-3</b>	<b>DUP</b>	<b>L2691612-2</b>						
Total Kjeldahl Nitrogen		58.7	63.4		mg/L	7.7	20	17-MAR-22
<b>WG3705704-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			111.4		%		75-125	17-MAR-22
<b>WG3705704-1</b>	<b>MB</b>							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	17-MAR-22
<b>TOC-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5748582</b>							
<b>WG3706837-3</b>	<b>DUP</b>	<b>L2691886-1</b>						
Total Organic Carbon		0.62	0.58		mg/L	6.3	20	18-MAR-22
<b>WG3706837-2</b>	<b>LCS</b>							
Total Organic Carbon			105.3		%		80-120	18-MAR-22
<b>WG3706837-1</b>	<b>MB</b>							
Total Organic Carbon			<0.50		mg/L		0.5	18-MAR-22
<b>WG3706837-4</b>	<b>MS</b>	<b>L2691886-1</b>						
Total Organic Carbon			109.5		%		70-130	18-MAR-22
<b>Batch</b>	<b>R5748886</b>							
<b>WG3707313-3</b>	<b>DUP</b>	<b>L2692215-5</b>						
Total Organic Carbon		14.4	15.1		mg/L	4.5	20	21-MAR-22
<b>WG3707313-2</b>	<b>LCS</b>							
Total Organic Carbon			97.6		%		80-120	21-MAR-22
<b>WG3707313-1</b>	<b>MB</b>							
Total Organic Carbon			<0.50		mg/L		0.5	21-MAR-22
<b>WG3707313-4</b>	<b>MS</b>	<b>L2692215-5</b>						
Total Organic Carbon			N/A	MS-B	%		-	21-MAR-22
<b>TURBIDITY-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5741294</b>							
<b>WG3705406-3</b>	<b>DUP</b>	<b>L2691886-8</b>						
Turbidity		2.99	2.91		NTU	2.7	15	12-MAR-22
<b>WG3705406-2</b>	<b>LCS</b>							
Turbidity			102.0		%		85-115	12-MAR-22
<b>WG3705406-1</b>	<b>MB</b>							
Turbidity			<0.10		NTU		0.1	12-MAR-22
<b>ACY-MISA-TB</b>	<b>Effluent</b>							





### Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

Page 3 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>ACY-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5744682</b>							
<b>WG3705372-3</b>	<b>DUP</b>	<b>L2691886-2</b>						
Acidity (as CaCO3)		12.4	12.8		mg/L	2.8	20	15-MAR-22
<b>WG3705372-2</b>	<b>LCS</b>							
Acidity (as CaCO3)			94.2		%		85-115	15-MAR-22
<b>WG3705372-1</b>	<b>MB</b>							
Acidity (as CaCO3)			2.2		mg/L		3	15-MAR-22
<b>ALK-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5741623</b>							
<b>WG3705371-3</b>	<b>DUP</b>	<b>L2691886-14</b>						
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
<b>WG3705371-2</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			100.0		%		85-115	12-MAR-22
<b>WG3705371-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	12-MAR-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	12-MAR-22
<b>CN-FREE-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5744479</b>							
<b>WG3706200-3</b>	<b>DUP</b>	<b>L2691886-11</b>						
Cyanide, Free		0.0004	0.0006	RPD-NA	mg/L	N/A	20	15-MAR-22
<b>WG3706200-2</b>	<b>LCS</b>							
Cyanide, Free			98.6		%		80-120	15-MAR-22
<b>WG3706200-1</b>	<b>MB</b>							
Cyanide, Free			<0.0001		mg/L		0.002	15-MAR-22
<b>WG3706200-4</b>	<b>MS</b>	<b>L2691886-11</b>						
Cyanide, Free			104.9		%		75-125	15-MAR-22
<b>CN-T-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5744479</b>							
<b>WG3706200-3</b>	<b>DUP</b>	<b>L2691886-11</b>						
Cyanide, Total		0.0014	0.0006	RPD-NA	mg/L	N/A	20	15-MAR-22
<b>WG3706200-2</b>	<b>LCS</b>							
Cyanide, Total			97.9		%		80-120	15-MAR-22
<b>WG3706200-1</b>	<b>MB</b>							
Cyanide, Total			<0.0002		mg/L		0.002	15-MAR-22
<b>WG3706200-4</b>	<b>MS</b>	<b>L2691886-11</b>						
Cyanide, Total			95.9		%		75-125	15-MAR-22
<b>CN-WAD-MISA-CFA-WT</b>		<b>Effluent</b>						





## Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

Page 5 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>EC-MISA-TB Effluent</b>								
Batch R5741623								
WG3705371-1 MB								
Conductivity (EC)								
			<0.2		uS/cm		2	12-MAR-22
<b>HG-DIS-WT Effluent</b>								
Batch R5744160								
WG3706218-3 DUP								
Mercury (Hg)-Dissolved								
		L2691886-2	<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
<b>HG-TOT-WT Effluent</b>								
Batch R5744159								
WG3706214-3 DUP								
Mercury (Hg)-Total								
		L2691886-2	<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
<b>MET-D-MISA-TB Effluent</b>								
Batch R5748480								
WG3706646-3 DUP								
Aluminum (Al)-Dissolved								
		L2691886-13	0.0210		mg/L	0.5	20	18-MAR-22
Antimony (Sb)-Dissolved								
			0.000070	RPD-NA	mg/L	N/A	20	18-MAR-22
Arsenic (As)-Dissolved								
			0.00105		mg/L	4.5	20	18-MAR-22
Barium (Ba)-Dissolved								
			0.0121		mg/L	2.4	20	18-MAR-22
Beryllium (Be)-Dissolved								
			0.000004	RPD-NA	mg/L	N/A	20	18-MAR-22
Bismuth (Bi)-Dissolved								
			<0.000002	RPD-NA	mg/L	N/A	20	18-MAR-22
Boron (B)-Dissolved								
			0.0095	RPD-NA	mg/L	N/A	20	18-MAR-22
Cadmium (Cd)-Dissolved								
			0.0000030	RPD-NA	mg/L	N/A	20	18-MAR-22
Calcium (Ca)-Dissolved								
			47.7		mg/L	0.4	20	18-MAR-22
Cesium (Cs)-Dissolved								
			0.0000020	RPD-NA	mg/L	N/A	20	18-MAR-22



### Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

Page 6 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch R5748480</b>								
<b>WG3706646-3 DUP</b>		<b>L2691886-13</b>						
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
<b>WG3706646-2 LCS</b>								
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

Page 7 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>	<b>Effluent</b>							
<b>Batch</b>	<b>R5748480</b>							
<b>WG3706646-2</b>	<b>LCS</b>							
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

Page 8 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5748480</b>							
<b>WG3706646-2</b>	<b>LCS</b>							
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
<b>WG3706646-1</b>	<b>MB</b>							
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

Page 9 of 26

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

**Contact:** Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5748480</b>							
<b>WG3706646-1</b>	<b>MB</b>							
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
<b>WG3706646-4</b>	<b>MS</b>	<b>L2691886-14</b>						
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

Page 10 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5748480</b>							
<b>WG3706646-4 MS</b>		<b>L2691886-14</b>						
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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5748948</b>							
<b>WG3706066-3 DUP</b>		<b>L2691886-10</b>						
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

Page 11 of 26

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

**Contact:** Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5748948</b>							
<b>WG3706066-3</b>	<b>DUP</b>	<b>L2691886-10</b>						
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
<b>WG3706066-7</b>	<b>DUP</b>	<b>L2691886-13</b>						
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

Page 12 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5748948</b>							
<b>WG3706066-7</b>	<b>DUP</b>	<b>L2691886-13</b>						
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
<b>WG3706066-2</b>	<b>LCS</b>							
Aluminum (Al)-Total			111.5		%		80-120	21-MAR-22



## Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

Page 13 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5748948</b>							
<b>WG3706066-2</b>	<b>LCS</b>							
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

Page 14 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5748948</b>							
<b>WG3706066-2</b>	<b>LCS</b>							
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
<b>WG3706066-6</b>	<b>LCS</b>							
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

Page 15 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5748948</b>							
<b>WG3706066-6 LCS</b>								
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
<b>WG3706066-1 MB</b>								
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

Page 16 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5748948</b>							
<b>WG3706066-1 MB</b>								
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
<b>WG3706066-5 MB</b>								
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

Page 17 of 26

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

**Contact:** Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5748948</b>							
<b>WG3706066-5 MB</b>								
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
<b>WG3706066-4 MS</b>		<b>L2691886-11</b>						
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

Page 18 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5748948</b>							
<b>WG3706066-4 MS</b>		<b>L2691886-11</b>						
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
<b>WG3706066-8 MS</b>		<b>L2691886-14</b>						
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

Page 19 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5748948</b>							
<b>WG3706066-8 MS</b>		<b>L2691886-14</b>						
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

Page 20 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5748948</b>							
<b>WG3706066-8 MS</b>		<b>L2691886-14</b>						
Zirconium (Zr)-Total			107.1		%		70-130	21-MAR-22
<b>NH3-MISA-F-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5747747</b>							
<b>WG3705703-3 DUP</b>		<b>L2691880-2</b>						
Ammonia, Total (as N)		0.006	0.006	J	mg/L	0.0015	0.01	18-MAR-22
<b>WG3705703-2 LCS</b>			98.8		%		85-115	18-MAR-22
Ammonia, Total (as N)								
<b>WG3705703-1 MB</b>			<0.002		mg/L		0.005	18-MAR-22
Ammonia, Total (as N)								
<b>WG3705703-4 MS</b>		<b>L2691886-1</b>	99.6		%		75-125	18-MAR-22
Ammonia, Total (as N)								
<b>Batch</b>	<b>R5750358</b>							
<b>WG3708182-3 DUP</b>		<b>L2691886-15</b>						
Ammonia, Total (as N)		0.010	0.010		mg/L	0.0	20	25-MAR-22
<b>WG3708182-2 LCS</b>			98.1		%		85-115	25-MAR-22
Ammonia, Total (as N)								
<b>WG3708182-1 MB</b>			<0.002		mg/L		0.005	25-MAR-22
Ammonia, Total (as N)								
<b>WG3708182-4 MS</b>		<b>L2692577-1</b>	N/A	MS-B	%		-	25-MAR-22
Ammonia, Total (as N)								
<b>NO2-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5744503</b>							
<b>WG3705376-2 LCS</b>			101.1		%		90-110	15-MAR-22
Nitrite (as N)								
<b>WG3705376-1 MB</b>			0.002		mg/L		0.01	15-MAR-22
Nitrite (as N)								
<b>NO3-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5744503</b>							
<b>WG3705376-2 LCS</b>			100.2		%		90-110	15-MAR-22
Nitrate (as N)								
<b>WG3705376-1 MB</b>			<0.002		mg/L		0.02	15-MAR-22
Nitrate (as N)								
<b>OGG-TOT-WT</b>								
	<b>Effluent</b>							



### Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

Page 21 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>OGG-TOT-WT</b>		<b>Effluent</b>						
Batch	R5744717							
WG3706154-2	LCS							
Oil and Grease, Total			98.9		%		50-150	15-MAR-22
WG3706154-1	MB							
Oil and Grease, Total			0.4		mg/L		1	15-MAR-22
<b>PH-MISA-TB</b>		<b>Effluent</b>						
Batch	R5741623							
WG3705371-3	DUP	L2691886-14						
pH		7.54	7.55	J	pH	0.01	0.2	12-MAR-22
WG3705371-2	LCS							
pH			6.93		pH		6.9-7.1	12-MAR-22
<b>SO4-MISA-IC-TB</b>		<b>Effluent</b>						
Batch	R5744503							
WG3705376-2	LCS							
Sulfate (SO4)			100.9		%		90-110	15-MAR-22
WG3705376-1	MB							
Sulfate (SO4)			<0.05		mg/L		0.3	15-MAR-22
<b>TDS-MISA-TB</b>		<b>Effluent</b>						
Batch	R5743338							
WG3705632-3	DUP	L2691886-10						
Total Dissolved Solids		262	260		mg/L	0.8	20	14-MAR-22
WG3705632-2	LCS							
Total Dissolved Solids			96.7		%		85-115	14-MAR-22
WG3705632-1	MB							
Total Dissolved Solids			<2		mg/L		10	14-MAR-22
Batch	R5744500							
WG3706153-2	LCS							
Total Dissolved Solids			96.8		%		85-115	15-MAR-22
WG3706153-1	MB							
Total Dissolved Solids			2		mg/L		10	15-MAR-22
<b>TSS-MISA-TB</b>		<b>Effluent</b>						
Batch	R5743339							
WG3705629-3	DUP	L2691886-10						
Total Suspended Solids		4.0	4.0		mg/L	5.0	20	14-MAR-22
WG3705629-2	LCS							
Total Suspended Solids			93.8		%		85-115	14-MAR-22
WG3705629-1	MB							
Total Suspended Solids			<0.5		mg/L		3	14-MAR-22



### Quality Control Report

Workorder: L2691886

Report Date: 11-APR-22

Page 22 of 26

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>TSS-MISA-TB</b>	<b>Effluent</b>							
<b>Batch</b>	<b>R5744483</b>							
<b>WG3706156-2</b>	<b>LCS</b>							
Total Suspended Solids			93.8		%		85-115	15-MAR-22
<b>WG3706156-1</b>	<b>MB</b>							
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

Page 23 of 26

## 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

Page 24 of 26

Contact: Garnet Cornell

**Hold Time Exceedances:**

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Physical Tests</b>							
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
<b>Leachable Anions &amp; Nutrients</b>							
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

Page 25 of 26

Contact: Garnet Cornell

**Hold Time Exceedances:**

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Leachable Anions &amp; Nutrients</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Aggregate Organics</b>							
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

Page 26 of 26

## Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Aggregate Organics</b>							
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.





L2691886-COFC

CB  
AMI  
Page 1 of 4

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
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	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	AMI; 10:20am ; 3.6°C CB			

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

Sample Code	DO	PH	TEMP	Date and Time	Matrix	NG-SW-P-TB	RA226-MMER-BE									Number of Containers	Comments
-7 SW16_SW_20220308	11.7	7.92	0.8	03/08/2022 11:30	SW	X										11	
-8 SW17_SW_20220308	12.1	7.09	0.3	03/08/2022 12:20	SW	X										11	
-9 SW20_SW_20220308	9.45	6.53	-0.03	03/08/2022 12:15	SW	X	X									12	
-10 SW21A_SW_20220308	0	7.8	0.05	03/08/2022 11:50	SW	X										11	
-11 SW22A_SW_20220308	0	7.09	-0.38	03/09/2022 09:10	SW	X	X									12	
-12 SW23_SW_20220308	13.6	6.93	0.5	03/08/2022 14:00	SW	X	X									12	
-13 SW24_SW_20220308	4.65	6.83	0.02	03/08/2022 14:20	SW	X	X									12	

<b>Signature</b>		<b>Date/Time</b>		<b>Shipping Details</b>			<b>ATTN</b>			<b>Special Instructions:</b>		
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:								



L2691886-COFC

OB

CHAIN OF CUSTODY RECORD - ALS-446304803

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 3/10/2022 11:31:00 AM <b>COC Number:</b> ALS-446304803						<b>Containers</b> SW Kit Ra-226 Bottle								Number of Containers	<b>Comments</b>				
						<b>Filtered</b> N N													
						<b>Preservatives</b>													
						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

B  
AMI  
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 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: 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:

---

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
L2697806-1 FB-SW-20220405 Sampled By: Client on 05-APR-22 @ 12:00 Matrix: SW							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Total Dissolved Solids	118		13	mg/L		08-APR-22	R5760378
Turbidity	4.46		0.10	NTU		08-APR-22	R5759576
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
Sulfate (SO4)	7.65		0.30	mg/L		11-APR-22	R5761596
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
Cyanide, Free	0.0006	<DL	0.0020	mg/L		11-APR-22	R5761530
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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							
<b>Organic / Inorganic Carbon</b>							
Total Organic Carbon	13.2		0.50	mg/L		14-APR-22	R5764398
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
Zirconium (Zr)-Total	0.000958	<DL	0.0010	mg/L		11-APR-22	R5761547
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							

\* Refer 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							
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.19		0.10	pH		10-APR-22	R5759992
Temperature, Client Supplied	0		0	Degree C		10-APR-22	R5759992
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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							
<b>Field Tests</b>							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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 &amp; 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 <sub>3</sub> )	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 <sub>3</sub> )	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 CaCO<sub>3</sub>) 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

Page 1 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>BOD-TB</b>		<b>Water</b>						
<b>Batch R5762400</b>								
<b>WG3715152-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			109.8		%		85-115	08-APR-22
<b>WG3715152-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	08-APR-22
<b>Batch R5763242</b>								
<b>WG3715470-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			99.6		%		85-115	09-APR-22
<b>WG3715470-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	09-APR-22
<b>CL-L-IC-N-TB</b>		<b>Water</b>						
<b>Batch R5761596</b>								
<b>WG3715340-3</b>	<b>DUP</b>	<b>L2697806-7</b>						
Chloride (Cl)		3.98	3.99		mg/L	0.1	20	11-APR-22
<b>WG3715116-2</b>	<b>LCS</b>							
Chloride (Cl)			100.3		%		90-110	11-APR-22
<b>WG3715340-2</b>	<b>LCS</b>							
Chloride (Cl)			100.5		%		90-110	11-APR-22
<b>WG3715116-1</b>	<b>MB</b>							
Chloride (Cl)			0.16	MB-LOR	mg/L		0.1	11-APR-22
<b>WG3715340-1</b>	<b>MB</b>							
Chloride (Cl)			0.13	B	mg/L		0.1	11-APR-22
<b>WG3715340-4</b>	<b>MS</b>	<b>L2697806-8</b>						
Chloride (Cl)			117.8		%		75-125	11-APR-22
<b>COD-TB</b>		<b>Water</b>						
<b>Batch R5761766</b>								
<b>WG3715836-3</b>	<b>DUP</b>	<b>L2697806-1</b>						
Chemical Oxygen Demand		<10	<10	RPD-NA	mg/L	N/A	20	12-APR-22
<b>WG3715836-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			110.5		%		85-115	12-APR-22
<b>WG3715836-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	12-APR-22
<b>WG3715836-4</b>	<b>MS</b>	<b>L2697806-2</b>						
Chemical Oxygen Demand			105.4		%		75-125	12-APR-22
<b>COLOUR-TB</b>		<b>Water</b>						





### Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

Page 2 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>COLOUR-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5759887</b>							
<b>WG3715114-2</b>	<b>LCS</b>							
Color, True			101.8		%		85-115	09-APR-22
<b>WG3715114-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	09-APR-22
<b>Batch</b>	<b>R5759894</b>							
<b>WG3715328-3</b>	<b>DUP</b>	<b>L2697806-15</b>						
Color, True		73.0	73.1		CU	0.2	20	09-APR-22
<b>WG3715328-2</b>	<b>LCS</b>							
Color, True			103.3		%		85-115	09-APR-22
<b>WG3715328-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	09-APR-22
<b>F-IC-N-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5761596</b>							
<b>WG3715340-3</b>	<b>DUP</b>	<b>L2697806-7</b>						
Fluoride (F)		0.037	0.036		mg/L	2.4	20	11-APR-22
<b>WG3715116-2</b>	<b>LCS</b>							
Fluoride (F)			104.8		%		90-110	11-APR-22
<b>WG3715340-2</b>	<b>LCS</b>							
Fluoride (F)			106.2		%		90-110	11-APR-22
<b>WG3715116-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	11-APR-22
<b>WG3715340-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	11-APR-22
<b>WG3715340-4</b>	<b>MS</b>	<b>L2697806-8</b>						
Fluoride (F)			90.2		%		75-125	11-APR-22
<b>PO4-DO-COL-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5760839</b>							
<b>WG3715335-3</b>	<b>DUP</b>	<b>L2697806-1</b>						
Orthophosphate-Dissolved (as P)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	11-APR-22
<b>WG3715335-2</b>	<b>LCS</b>							
Orthophosphate-Dissolved (as P)			97.9		%		80-120	11-APR-22
<b>WG3715335-1</b>	<b>MB</b>							
Orthophosphate-Dissolved (as P)			<0.0030		mg/L		0.003	11-APR-22
<b>TKN-F-TB</b>		<b>Water</b>						



### Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

Page 3 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>TKN-F-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5762435</b>							
<b>WG3715826-3</b>	<b>DUP</b>	<b>L2697806-13</b>						
Total Kjeldahl Nitrogen		0.618	0.607		mg/L	1.8	20	13-APR-22
<b>WG3715829-3</b>	<b>DUP</b>	<b>L2697806-15</b>						
Total Kjeldahl Nitrogen		0.642	0.647		mg/L	0.8	20	13-APR-22
<b>WG3715826-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			102.2		%		75-125	13-APR-22
<b>WG3715829-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			110.3		%		75-125	13-APR-22
<b>WG3715826-1</b>	<b>MB</b>							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	13-APR-22
<b>WG3715829-1</b>	<b>MB</b>							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	13-APR-22
<b>WG3715826-4</b>	<b>MS</b>	<b>L2697806-14</b>						
Total Kjeldahl Nitrogen			102.7		%		70-130	13-APR-22
<b>TOC-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5762791</b>							
<b>WG3716272-3</b>	<b>DUP</b>	<b>WG3716272-5</b>						
Total Organic Carbon		4.26	4.26		mg/L	0.1	20	13-APR-22
<b>WG3716272-2</b>	<b>LCS</b>							
Total Organic Carbon			99.3		%		80-120	13-APR-22
<b>WG3716272-1</b>	<b>MB</b>							
Total Organic Carbon			<0.50		mg/L		0.5	13-APR-22
<b>WG3716272-4</b>	<b>MS</b>	<b>WG3716272-5</b>						
Total Organic Carbon			100.1		%		70-130	13-APR-22
<b>Batch</b>	<b>R5764398</b>							
<b>WG3716876-3</b>	<b>DUP</b>	<b>L2698123-1</b>						
Total Organic Carbon		2.66	2.44		mg/L	8.6	20	14-APR-22
<b>WG3716876-2</b>	<b>LCS</b>							
Total Organic Carbon			104.4		%		80-120	14-APR-22
<b>WG3716876-1</b>	<b>MB</b>							
Total Organic Carbon			<0.50		mg/L		0.5	14-APR-22
<b>WG3716876-4</b>	<b>MS</b>	<b>L2698123-1</b>						
Total Organic Carbon			92.7		%		70-130	14-APR-22
<b>TURBIDITY-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5759437</b>							
<b>WG3715323-2</b>	<b>LCS</b>							
Turbidity			99.0		%		85-115	08-APR-22
<b>WG3715323-1</b>	<b>MB</b>							



### Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

Page 4 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>TURBIDITY-TB</b>		<b>Water</b>						
Batch	R5759437							
WG3715323-1	MB		<0.10		NTU		0.1	08-APR-22
Turbidity								
Batch	R5759576							
WG3715394-2	LCS		101.0		%		85-115	08-APR-22
Turbidity								
WG3715394-1	MB		<0.10		NTU		0.1	08-APR-22
Turbidity								
Batch	R5759904							
WG3715532-2	LCS		99.5		%		85-115	09-APR-22
Turbidity								
WG3715532-1	MB		<0.10		NTU		0.1	09-APR-22
Turbidity								
<b>ACY-MISA-TB</b>		<b>Effluent</b>						
Batch	R5760198							
WG3715109-2	LCS		96.1		%		85-115	09-APR-22
Acidity (as CaCO3)								
WG3715109-1	MB		1.4		mg/L		3	09-APR-22
Acidity (as CaCO3)								
<b>ALK-MISA-TB</b>		<b>Effluent</b>						
Batch	R5759848							
WG3715321-3	DUP	L2697806-3	94.0		mg/L	0.9	20	08-APR-22
Alkalinity, Total (as CaCO3)								
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	08-APR-22
WG3715105-2	LCS		101.4		%		85-115	08-APR-22
Alkalinity, Total (as CaCO3)								
WG3715321-2	LCS		100.9		%		85-115	08-APR-22
Alkalinity, Total (as CaCO3)								
WG3715105-1	MB		0.8		mg/L		2	08-APR-22
Alkalinity, Total (as CaCO3)								
Alkalinity, Phenolphthalein		<0.2	<0.2		mg/L		2	08-APR-22
WG3715321-1	MB		0.2		mg/L		2	08-APR-22
Alkalinity, Total (as CaCO3)								
Alkalinity, Phenolphthalein		<0.2	<0.2		mg/L		2	08-APR-22



### Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

Page 5 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>ALK-MISA-TB Effluent</b>								
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
<b>CN-FREE-MISA-CFA-WT Effluent</b>								
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
<b>CN-T-MISA-CFA-WT Effluent</b>								
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
<b>CN-WAD-MISA-CFA-WT Effluent</b>								
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
<b>DOC-WT Effluent</b>								



## Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

Page 6 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>DOC-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5762739</b>							
<b>WG3716704-3</b>	<b>DUP</b>	<b>WG3716704-5</b>						
Dissolved Organic Carbon		14.3	15.0		mg/L	4.6	25	13-APR-22
<b>WG3716704-2</b>	<b>LCS</b>		106.2		%		70-130	13-APR-22
Dissolved Organic Carbon								
<b>WG3716704-1</b>	<b>MB</b>		<0.50		mg/L		0.5	13-APR-22
Dissolved Organic Carbon								
<b>Batch</b>	<b>R5762758</b>							
<b>WG3716713-3</b>	<b>DUP</b>	<b>L2697806-1</b>						
Dissolved Organic Carbon		<0.50	<0.50	RPD-NA	mg/L	N/A	25	13-APR-22
<b>WG3716713-2</b>	<b>LCS</b>		95.4		%		70-130	13-APR-22
Dissolved Organic Carbon								
<b>WG3716713-1</b>	<b>MB</b>		<0.50		mg/L		0.5	13-APR-22
Dissolved Organic Carbon								
<b>EC-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5759848</b>							
<b>WG3715321-3</b>	<b>DUP</b>	<b>L2697806-3</b>						
Conductivity (EC)		236	234		uS/cm	0.9	10	08-APR-22
<b>WG3715105-2</b>	<b>LCS</b>		100.7		%		90-110	08-APR-22
Conductivity (EC)								
<b>WG3715321-2</b>	<b>LCS</b>		100.2		%		90-110	08-APR-22
Conductivity (EC)								
<b>WG3715105-1</b>	<b>MB</b>		<0.2		uS/cm		2	08-APR-22
Conductivity (EC)								
<b>WG3715321-1</b>	<b>MB</b>		<0.2		uS/cm		2	08-APR-22
Conductivity (EC)								
<b>Batch</b>	<b>R5760198</b>							
<b>WG3715109-2</b>	<b>LCS</b>		99.3		%		90-110	09-APR-22
Conductivity (EC)								
<b>WG3715109-1</b>	<b>MB</b>		0.2		uS/cm		2	09-APR-22
Conductivity (EC)								
<b>HG-DIS-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5762481</b>							
<b>WG3716843-3</b>	<b>DUP</b>	<b>L2697806-1</b>						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	13-APR-22
<b>WG3716843-2</b>	<b>LCS</b>		99.9		%		80-120	13-APR-22
Mercury (Hg)-Dissolved								
<b>WG3716843-1</b>	<b>MB</b>						0.00003	



## Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

Page 7 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>HG-DIS-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5762481</b>							
<b>WG3716843-1 MB</b>								
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.00003	13-APR-22
<b>WG3716843-4 MS</b>		<b>L2697806-2</b>						
Mercury (Hg)-Dissolved			95.5		%		70-130	13-APR-22
<b>HG-TOT-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5762463</b>							
<b>WG3716841-3 DUP</b>		<b>L2697806-1</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	13-APR-22
<b>WG3716841-2 LCS</b>								
Mercury (Hg)-Total			101.0		%		80-120	13-APR-22
<b>WG3716841-1 MB</b>								
Mercury (Hg)-Total			<0.000005		mg/L		0.00003	13-APR-22
<b>WG3716841-4 MS</b>		<b>L2697806-2</b>						
Mercury (Hg)-Total			94.0		%		70-130	13-APR-22
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5761579</b>							
<b>WG3715883-11 DUP</b>		<b>L2697806-16</b>						
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

Page 8 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5761579</b>							
<b>WG3715883-11</b>	<b>DUP</b>	<b>L2697806-16</b>						
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
<b>WG3715883-10</b>	<b>LCS</b>							
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

Page 9 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5761579</b>							
<b>WG3715883-10 LCS</b>								
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
<b>WG3715883-9 MB</b>								
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

Page 10 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>	<b>Effluent</b>							
<b>Batch</b>	<b>R5761579</b>							
<b>WG3715883-9 MB</b>								
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

Page 11 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5761579</b>							
<b>WG3715883-9 MB</b>								
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	11-APR-22
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5761547</b>							
<b>WG3715781-11 DUP</b>		<b>L2697823-5</b>						
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

Page 12 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5761547</b>							
<b>WG3715781-11</b>	<b>DUP</b>	<b>L2697823-5</b>						
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
<b>WG3715781-7</b>	<b>DUP</b>	<b>L2697806-7</b>						
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

Page 13 of 27

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

**Contact:** Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5761547</b>							
<b>WG3715781-7</b>	<b>DUP</b>	<b>L2697806-7</b>						
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
<b>WG3715781-10</b>	<b>LCS</b>							
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

Page 14 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5761547</b>							
<b>WG3715781-10 LCS</b>								
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
<b>WG3715781-6 LCS</b>								
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

Page 15 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5761547</b>							
<b>WG3715781-6</b>	<b>LCS</b>							
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
<b>WG3715781-5</b>	<b>MB</b>							
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

Page 16 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5761547</b>							
<b>WG3715781-5 MB</b>								
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



**Environmental**

## Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

Page 17 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5761547</b>							
<b>WG3715781-5 MB</b>								
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
<b>WG3715781-9 MB</b>								
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

Page 18 of 27

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

**Contact:** Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5761547</b>							
<b>WG3715781-9 MB</b>								
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
<b>WG3715781-12 MS</b>		<b>L2697823-6</b>						
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

Page 19 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5761547</b>							
<b>WG3715781-12 MS</b>		<b>L2697823-6</b>						
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
<b>WG3715781-8 MS</b>		<b>L2697806-8</b>						
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



**Environmental**

## Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

Page 20 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5761547</b>							
<b>WG3715781-8 MS</b>		<b>L2697806-8</b>						
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
<b>NH3-MISA-F-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5763416</b>							
<b>WG3715819-2 LCS</b>								
Ammonia, Total (as N)			100.9		%		85-115	14-APR-22
<b>WG3715823-2 LCS</b>								
Ammonia, Total (as N)			104.1		%		85-115	14-APR-22
<b>WG3715819-1 MB</b>								
Ammonia, Total (as N)			<0.002		mg/L		0.005	14-APR-22
<b>WG3715823-1 MB</b>								
Ammonia, Total (as N)			0.002		mg/L		0.005	14-APR-22
<b>NO2-MISA-IC-TB</b>								
	<b>Effluent</b>							







### Quality Control Report

Workorder: L2697806

Report Date: 25-MAY-22

Page 23 of 27

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>TDS-MISA-TB</b>	<b>Effluent</b>							
<b>Batch R5760378</b>								
<b>WG3715815-1 MB</b>								
Total Dissolved Solids			4		mg/L		10	08-APR-22
<b>TSS-MISA-TB</b>	<b>Effluent</b>							
<b>Batch R5760022</b>								
<b>WG3715189-3 DUP</b>		<b>L2697806-1</b>						
Total Suspended Solids		<0.5	<0.5	RPD-NA	mg/L	N/A	20	08-APR-22
<b>WG3715189-2 LCS</b>								
Total Suspended Solids			93.8		%		85-115	08-APR-22
<b>WG3715189-1 MB</b>								
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

Page 24 of 27

## 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

Page 25 of 27

Contact: Garnet Cornell

**Hold Time Exceedances:**

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Physical Tests</b>							
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
<b>Leachable Anions &amp; Nutrients</b>							
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

Page 26 of 27

## Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Leachable Anions &amp; Nutrients</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Organic / Inorganic Carbon</b>							
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

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 4/5/2022 4:29:00 PM <b>COC Number:</b> ALS-446566868						<b>Containers</b> SW Kit Ra-226 Bottle									
						<b>Filtered</b> N N									
						<b>Preservatives</b>									
						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	

<b>Signature</b>		<b>Date/Time</b>		<b>Shipping Details</b>			<b>ATTN</b>		<b>Special Instructions:</b>		
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:	
Shipped by		4/5/2022 4:29:00 PM		Method of Shipment: Courier					Email Invoice to:	
Received by		KC17 8 Apr 22 10:15 6.8°C		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:						



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:

---

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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Total Dissolved Solids	68		10	mg/L		09-MAY-22	R5775596
Turbidity	1.91		0.10	NTU		06-MAY-22	R5773476
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
Sulfate (SO4)	6.30		0.30	mg/L		06-MAY-22	R5774496
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
Cyanide, Free	<0.0001	<W	0.0020	mg/L		09-MAY-22	R5775781
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000143		0.000020	ug/L	16-MAY-22	18-MAY-22	R5785405
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							

\* Refer 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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							

\* Refer 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							
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Aggregate Organics</b>							
Oil and Grease, Total	0.4	<DL	1.0	mg/L	12-MAY-22	12-MAY-22	R5779462
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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							
<b>Field Tests</b>							
Temperature, Client Supplied	3.79		0	Degree C		08-MAY-22	R5773969
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							

\* Refer 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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Turbidity	5.26		0.10	NTU		06-MAY-22	R5773476
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
Sulfate (SO4)	0.85	<T	0.30	mg/L		06-MAY-22	R5774496
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							

\* Refer 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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							

\* Refer 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							
<b>Dissolved Metals</b>							
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  <b>Dissolved Metals</b> <b>Aggregate Organics</b>							
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 <sub>3</sub> )	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 <sub>3</sub> )	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 CaCO<sub>3</sub> 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
<b>BOD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5777386</b>							
<b>WG3724419-3</b>	<b>DUP</b>	<b>L2703297-1</b>						
Biochemical Oxygen Demand		24	21		mg/L	12	30	06-MAY-22
<b>WG3724419-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			85.4		%		85-115	06-MAY-22
<b>WG3724419-6</b>	<b>LCS</b>							
Biochemical Oxygen Demand			92.8		%		85-115	06-MAY-22
<b>WG3724419-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	06-MAY-22
<b>WG3724419-5</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	06-MAY-22
<b>Batch</b>	<b>R5778700</b>							
<b>WG3724696-6</b>	<b>LCS</b>							
Biochemical Oxygen Demand			87.2		%		85-115	07-MAY-22
<b>WG3724696-5</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	07-MAY-22
<b>CL-L-IC-N-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5774496</b>							
<b>WG3724485-3</b>	<b>DUP</b>	<b>L2703990-3</b>						
Chloride (Cl)		3.96	3.96		mg/L	0.1	20	06-MAY-22
<b>WG3724485-2</b>	<b>LCS</b>							
Chloride (Cl)			93.9		%		90-110	06-MAY-22
<b>WG3724577-2</b>	<b>LCS</b>							
Chloride (Cl)			94.4		%		90-110	06-MAY-22
<b>WG3724485-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	06-MAY-22
<b>WG3724577-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	06-MAY-22
<b>COD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5775742</b>							
<b>WG3725082-3</b>	<b>DUP</b>	<b>L2703782-1</b>						
Chemical Oxygen Demand		25	26		mg/L	6.1	20	10-MAY-22
<b>WG3725082-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			107.5		%		85-115	10-MAY-22
<b>WG3725082-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	10-MAY-22
<b>WG3725082-4</b>	<b>MS</b>	<b>L2703988-1</b>						
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
<b>COD-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5777387</b>							
<b>WG3725087-3</b>	<b>DUP</b>	<b>L2704046-14</b>						
Chemical Oxygen Demand		36	38		mg/L	3.4	20	11-MAY-22
<b>WG3725087-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			105.6		%		85-115	11-MAY-22
<b>WG3725087-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	11-MAY-22
<b>WG3725087-4</b>	<b>MS</b>	<b>L2704046-15</b>						
Chemical Oxygen Demand			102.7		%		75-125	11-MAY-22
<b>COLOUR-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5773618</b>							
<b>WG3724361-3</b>	<b>DUP</b>	<b>L2703727-1</b>						
Color, True		6.0	6.2		CU	3.8	20	06-MAY-22
<b>WG3724569-3</b>	<b>DUP</b>	<b>L2704046-11</b>						
Color, True		128	128		CU	0.0	20	06-MAY-22
<b>WG3724361-2</b>	<b>LCS</b>							
Color, True			104.2		%		85-115	06-MAY-22
<b>WG3724569-2</b>	<b>LCS</b>							
Color, True			99.9		%		85-115	06-MAY-22
<b>WG3724361-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	06-MAY-22
<b>WG3724569-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	06-MAY-22
<b>F-IC-N-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5774496</b>							
<b>WG3724485-3</b>	<b>DUP</b>	<b>L2703990-3</b>						
Fluoride (F)		0.073	0.073		mg/L	0.3	20	06-MAY-22
<b>WG3724485-2</b>	<b>LCS</b>							
Fluoride (F)			101.6		%		90-110	06-MAY-22
<b>WG3724577-2</b>	<b>LCS</b>							
Fluoride (F)			102.3		%		90-110	06-MAY-22
<b>WG3724485-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	06-MAY-22
<b>WG3724577-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	06-MAY-22
<b>MEHG-T-GCAF-VA</b>		<b>Water</b>						



### Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

Page 3 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
<b>MEHG-T-GCAF-VA</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5785405</b>							
<b>WG3729683-2</b>	<b>DUP</b>	<b>L2701349-1</b>						
	Methylmercury (as MeHg)-Total	0.000114	0.000118		ug/L	4.2	20	18-MAY-22
<b>WG3729683-3</b>	<b>LCS</b>							
	Methylmercury (as MeHg)-Total		83.7		%		70-130	18-MAY-22
<b>WG3729683-1</b>	<b>MB</b>							
	Methylmercury (as MeHg)-Total		<0.000020		ug/L		0.00002	18-MAY-22
<b>WG3729683-4</b>	<b>MS</b>	<b>L2705087-1</b>						
	Methylmercury (as MeHg)-Total		80.6		%		70-130	18-MAY-22
<b>PO4-DO-COL-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5774558</b>							
<b>WG3724490-3</b>	<b>DUP</b>	<b>L2703990-1</b>						
	Orthophosphate-Dissolved (as P)	<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	09-MAY-22
<b>WG3724573-3</b>	<b>DUP</b>	<b>L2704046-17</b>						
	Orthophosphate-Dissolved (as P)	<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	09-MAY-22
<b>WG3724490-2</b>	<b>LCS</b>							
	Orthophosphate-Dissolved (as P)		104.3		%		80-120	09-MAY-22
<b>WG3724573-2</b>	<b>LCS</b>							
	Orthophosphate-Dissolved (as P)		107.1		%		80-120	09-MAY-22
<b>WG3724490-1</b>	<b>MB</b>							
	Orthophosphate-Dissolved (as P)		<0.0030		mg/L		0.003	09-MAY-22
<b>WG3724573-1</b>	<b>MB</b>							
	Orthophosphate-Dissolved (as P)		<0.0030		mg/L		0.003	09-MAY-22
<b>WG3724490-4</b>	<b>MS</b>	<b>L2703990-2</b>						
	Orthophosphate-Dissolved (as P)		104.8		%		70-130	09-MAY-22
<b>WG3724573-4</b>	<b>MS</b>	<b>L2704046-18</b>						
	Orthophosphate-Dissolved (as P)		99.1		%		70-130	09-MAY-22
<b>TKN-F-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5777507</b>							
<b>WG3725048-3</b>	<b>DUP</b>	<b>L2702844-1</b>						
	Total Kjeldahl Nitrogen	0.797	0.925		mg/L	15	20	10-MAY-22
<b>WG3725050-3</b>	<b>DUP</b>	<b>L2704046-6</b>						
	Total Kjeldahl Nitrogen	0.709	0.691		mg/L	2.5	20	10-MAY-22
<b>WG3725048-2</b>	<b>LCS</b>							
	Total Kjeldahl Nitrogen		103.0		%		75-125	10-MAY-22
<b>WG3725050-2</b>	<b>LCS</b>							
	Total Kjeldahl Nitrogen		89.4		%		75-125	10-MAY-22
<b>WG3725048-1</b>	<b>MB</b>							
	Total Kjeldahl Nitrogen		<0.050		mg/L		0.05	10-MAY-22



### Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

Page 4 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
<b>TKN-F-TB</b>		<b>Water</b>						
Batch	R5777507							
<b>WG3725050-1 MB</b>								
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	10-MAY-22
<b>WG3725048-4 MS</b>		<b>L2702844-2</b>						
Total Kjeldahl Nitrogen			105.3		%		70-130	10-MAY-22
<b>WG3725050-4 MS</b>		<b>L2704046-7</b>						
Total Kjeldahl Nitrogen			97.8		%		70-130	10-MAY-22
<b>TOC-WT</b>		<b>Water</b>						
Batch	R5779463							
<b>WG3726597-3 DUP</b>		<b>L2704046-4</b>						
Total Organic Carbon		15.1	14.7		mg/L	2.6	20	12-MAY-22
<b>WG3726597-2 LCS</b>								
Total Organic Carbon			99.7		%		80-120	12-MAY-22
<b>WG3726597-1 MB</b>								
Total Organic Carbon			<0.50		mg/L		0.5	12-MAY-22
<b>WG3726597-4 MS</b>		<b>L2704046-4</b>						
Total Organic Carbon			N/A	MS-B	%		-	12-MAY-22
<b>TURBIDITY-TB</b>		<b>Water</b>						
Batch	R5773476							
<b>WG3724563-3 DUP</b>		<b>L2704046-1</b>						
Turbidity		0.12	0.13		NTU	7.2	15	06-MAY-22
<b>WG3724563-2 LCS</b>								
Turbidity			101.5		%		85-115	06-MAY-22
<b>WG3724563-1 MB</b>								
Turbidity			<0.10		NTU		0.1	06-MAY-22
Batch	R5773643							
<b>WG3724511-3 DUP</b>		<b>L2703990-1</b>						
Turbidity		2.05	2.00		NTU	2.5	15	06-MAY-22
<b>WG3724511-2 LCS</b>								
Turbidity			102.5		%		85-115	06-MAY-22
<b>WG3724511-1 MB</b>								
Turbidity			<0.10		NTU		0.1	06-MAY-22
<b>ACY-MISA-TB</b>		<b>Effluent</b>						
Batch	R5774977							
<b>WG3724564-3 DUP</b>		<b>L2704046-15</b>						
Acidity (as CaCO3)		0.6	1.0	RPD-NA	mg/L	N/A	20	09-MAY-22
<b>WG3724358-2 LCS</b>								
Acidity (as CaCO3)			92.0		%		85-115	09-MAY-22



## Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

Page 5 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
<b>ACY-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5774977</b>							
<b>WG3724564-2</b>	<b>LCS</b>							
Acidity (as CaCO3)			89.8		%		85-115	09-MAY-22
<b>WG3724358-1</b>	<b>MB</b>							
Acidity (as CaCO3)			2.2		mg/L		3	09-MAY-22
<b>WG3724564-1</b>	<b>MB</b>							
Acidity (as CaCO3)			1.8		mg/L		3	09-MAY-22
<b>ALK-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5774862</b>							
<b>WG3724475-3</b>	<b>DUP</b>	<b>L2703995-1</b>						
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
<b>WG3724561-3</b>	<b>DUP</b>	<b>L2704046-16</b>						
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
<b>WG3724475-2</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			100.1		%		85-115	06-MAY-22
<b>WG3724561-2</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			104.6		%		85-115	06-MAY-22
<b>WG3724475-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	06-MAY-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	06-MAY-22
<b>WG3724561-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	06-MAY-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	06-MAY-22
<b>CN-FREE-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5775781</b>							
<b>WG3724968-3</b>	<b>DUP</b>	<b>L2703998-1</b>						
Cyanide, Free		0.0004	0.0004	RPD-NA	mg/L	N/A	20	09-MAY-22
<b>WG3724968-7</b>	<b>DUP</b>	<b>L2703990-2</b>						
Cyanide, Free		0.0008	0.0006	RPD-NA	mg/L	N/A	20	09-MAY-22
<b>WG3724968-2</b>	<b>LCS</b>							
Cyanide, Free			104.3		%		80-120	09-MAY-22
<b>WG3724968-6</b>	<b>LCS</b>							
Cyanide, Free			102.9		%		80-120	09-MAY-22
<b>WG3724968-1</b>	<b>MB</b>							
Cyanide, Free			0.0002		mg/L		0.002	09-MAY-22
<b>WG3724968-5</b>	<b>MB</b>							



### Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

Page 6 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
<b>CN-FREE-MISA-CFA-WT Effluent</b>								
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
<b>CN-T-MISA-CFA-WT Effluent</b>								
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
<b>CN-WAD-MISA-CFA-WT Effluent</b>								
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

Page 7 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
<b>CN-WAD-MISA-CFA-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5775781</b>							
<b>WG3724968-4</b>	<b>MS</b>	<b>L2703998-1</b>						
	Cyanide, Weak Acid Diss		107.2		%		75-125	09-MAY-22
<b>WG3724968-8</b>	<b>MS</b>	<b>L2703990-2</b>						
	Cyanide, Weak Acid Diss		111.8		%		75-125	09-MAY-22
<b>DOC-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5777179</b>							
<b>WG3725575-3</b>	<b>DUP</b>	<b>WG3725575-5</b>						
	Dissolved Organic Carbon	<0.50	<0.50	RPD-NA	mg/L	N/A	25	11-MAY-22
<b>WG3725575-2</b>	<b>LCS</b>							
	Dissolved Organic Carbon		93.8		%		70-130	11-MAY-22
<b>WG3725575-1</b>	<b>MB</b>							
	Dissolved Organic Carbon		<0.50		mg/L		0.5	11-MAY-22
<b>Batch</b>	<b>R5778383</b>							
<b>WG3725614-3</b>	<b>DUP</b>	<b>WG3725614-5</b>						
	Dissolved Organic Carbon	21.5	21.8		mg/L	1.6	25	11-MAY-22
<b>WG3725614-2</b>	<b>LCS</b>							
	Dissolved Organic Carbon		95.5		%		70-130	11-MAY-22
<b>WG3725614-1</b>	<b>MB</b>							
	Dissolved Organic Carbon		<0.50		mg/L		0.5	11-MAY-22
<b>Batch</b>	<b>R5778461</b>							
<b>WG3725984-3</b>	<b>DUP</b>	<b>WG3725984-5</b>						
	Dissolved Organic Carbon	<0.50	<0.50	RPD-NA	mg/L	N/A	25	11-MAY-22
<b>WG3725984-2</b>	<b>LCS</b>							
	Dissolved Organic Carbon		102.2		%		70-130	11-MAY-22
<b>WG3725984-1</b>	<b>MB</b>							
	Dissolved Organic Carbon		<0.50		mg/L		0.5	11-MAY-22
<b>EC-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5774862</b>							
<b>WG3724475-3</b>	<b>DUP</b>	<b>L2703995-1</b>						
	Conductivity (EC)	1490	1490		uS/cm	0.1	10	06-MAY-22
<b>WG3724561-3</b>	<b>DUP</b>	<b>L2704046-16</b>						
	Conductivity (EC)	85.2	82.0		uS/cm	3.7	10	06-MAY-22
<b>WG3724475-2</b>	<b>LCS</b>							
	Conductivity (EC)		99.6		%		90-110	06-MAY-22
<b>WG3724561-2</b>	<b>LCS</b>							
	Conductivity (EC)		100.2		%		90-110	06-MAY-22
<b>WG3724475-1</b>	<b>MB</b>							





## Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

Page 9 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
<b>HG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5774723</b>							
<b>WG3724953-2</b>	<b>LCS</b>							
Mercury (Hg)-Total			92.2		%		80-120	09-MAY-22
<b>WG3724953-1</b>	<b>MB</b>							
Mercury (Hg)-Total			<0.000005		mg/L		0.000005	09-MAY-22
<b>WG3724953-4</b>	<b>MS</b>	<b>L2704046-16</b>						
Mercury (Hg)-Total			96.8		%		70-130	09-MAY-22
<b>MET-D-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5775419</b>							
<b>WG3725183-4</b>	<b>DUP</b>	<b>WG3725183-3</b>						
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

Page 10 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
<b>MET-D-MISA-MS-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5775419</b>							
<b>WG3725183-4</b>	<b>DUP</b>	<b>WG3725183-3</b>						
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
<b>WG3725183-1</b>	<b>MB</b>							
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

Page 11 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
<b>MET-D-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch R5775419</b>								
<b>WG3725183-1 MB</b>								
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
<b>MET-T-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch R5774622</b>								
<b>WG3724812-4 DUP</b>								
		<b>WG3724812-3</b>						
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

Page 12 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
<b>MET-T-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5774622</b>							
<b>WG3724812-4</b>	<b>DUP</b>	<b>WG3724812-3</b>						
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
<b>WG3724812-1</b>	<b>MB</b>							
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

Page 13 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
<b>MET-T-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5774622</b>							
<b>WG3724812-1 MB</b>								
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

Page 14 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
<b>MET-T-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch R5774622</b>								
<b>WG3724812-1 MB</b>								
	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
<b>NH3-MISA-F-TB</b>		<b>Effluent</b>						
<b>Batch R5775697</b>								
<b>WG3725030-3 DUP</b>		<b>L2703990-3</b>						
	Ammonia, Total (as N)	0.180	0.178		mg/L	0.1	20	09-MAY-22
<b>WG3725030-2 LCS</b>								
	Ammonia, Total (as N)		95.1		%		85-115	09-MAY-22
<b>WG3725030-1 MB</b>								
	Ammonia, Total (as N)		0.004		mg/L		0.005	09-MAY-22
<b>Batch R5777538</b>								
<b>WG3725032-3 DUP</b>		<b>L2704046-18</b>						
	Ammonia, Total (as N)	<0.002	<0.002	RPD-NA	mg/L	N/A	20	11-MAY-22
<b>WG3725032-2 LCS</b>								
	Ammonia, Total (as N)		108.0		%		85-115	11-MAY-22
<b>WG3725032-1 MB</b>								
	Ammonia, Total (as N)		0.008	MB-LOR	mg/L		0.005	11-MAY-22
<b>Batch R5782200</b>								
<b>WG3727694-3 DUP</b>		<b>L2704046-10</b>						
	Ammonia, Total (as N)	0.024	0.026		mg/L	12	20	16-MAY-22
<b>WG3727694-2 LCS</b>								
	Ammonia, Total (as N)		101.2		%		85-115	16-MAY-22
<b>WG3727694-1 MB</b>								
	Ammonia, Total (as N)		<0.002		mg/L		0.005	16-MAY-22
<b>WG3727694-4 MS</b>		<b>L2704046-11</b>						
	Ammonia, Total (as N)		109.4		%		75-125	16-MAY-22
<b>NO2-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch R5774496</b>								
<b>WG3724485-3 DUP</b>		<b>L2703990-3</b>						
	Nitrite (as N)	0.031	0.030		mg/L	2.3	20	06-MAY-22
<b>WG3724485-2 LCS</b>								
	Nitrite (as N)		100.0		%		90-110	06-MAY-22
<b>WG3724577-2 LCS</b>								
	Nitrite (as N)		100.7		%		90-110	06-MAY-22



## Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

Page 15 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
<b>NO2-MISA-IC-TB</b>		<b>Effluent</b>						
Batch	R5774496							
<b>WG3724485-1</b>	<b>MB</b>							
Nitrite (as N)			<0.001		mg/L		0.01	06-MAY-22
<b>WG3724577-1</b>	<b>MB</b>							
Nitrite (as N)			<0.001		mg/L		0.01	06-MAY-22
<b>NO3-MISA-IC-TB</b>		<b>Effluent</b>						
Batch	R5774496							
<b>WG3724485-3</b>	<b>DUP</b>	<b>L2703990-3</b>						
Nitrate (as N)		3.51	3.52		mg/L	0.5	20	06-MAY-22
<b>WG3724485-2</b>	<b>LCS</b>							
Nitrate (as N)			98.6		%		90-110	06-MAY-22
<b>WG3724577-2</b>	<b>LCS</b>							
Nitrate (as N)			99.2		%		90-110	06-MAY-22
<b>WG3724485-1</b>	<b>MB</b>							
Nitrate (as N)			0.004		mg/L		0.02	06-MAY-22
<b>WG3724577-1</b>	<b>MB</b>							
Nitrate (as N)			0.004		mg/L		0.02	06-MAY-22
<b>OGG-TOT-WT</b>		<b>Effluent</b>						
Batch	R5778116							
<b>WG3726433-2</b>	<b>LCS</b>							
Oil and Grease, Total			100.4		%		50-150	12-MAY-22
<b>WG3726433-1</b>	<b>MB</b>							
Oil and Grease, Total			0.6		mg/L		1	12-MAY-22
Batch	R5779462							
<b>WG3726683-2</b>	<b>LCS</b>							
Oil and Grease, Total			84.3		%		50-150	12-MAY-22
<b>WG3726683-1</b>	<b>MB</b>							
Oil and Grease, Total			0.6		mg/L		1	12-MAY-22
<b>PH-MISA-TB</b>		<b>Effluent</b>						
Batch	R5774862							
<b>WG3724475-3</b>	<b>DUP</b>	<b>L2703995-1</b>						
pH		7.96	7.98	J	pH	0.02	0.2	06-MAY-22
<b>WG3724561-3</b>	<b>DUP</b>	<b>L2704046-16</b>						
pH		7.30	7.43	J	pH	0.13	0.2	06-MAY-22
<b>WG3724475-2</b>	<b>LCS</b>							
pH			6.99		pH		6.9-7.1	06-MAY-22
<b>WG3724561-2</b>	<b>LCS</b>							
pH			6.93		pH		6.9-7.1	06-MAY-22



## Quality Control Report

Workorder: L2704046

Report Date: 22-JUN-22

Page 16 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
<b>SO4-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5774496</b>							
<b>WG3724485-3</b>	<b>DUP</b>	<b>L2703990-3</b>						
Sulfate (SO4)		120	120		mg/L	0.2	20	06-MAY-22
<b>WG3724485-2</b>	<b>LCS</b>							
Sulfate (SO4)			100.6		%		90-110	06-MAY-22
<b>WG3724577-2</b>	<b>LCS</b>							
Sulfate (SO4)			101.2		%		90-110	06-MAY-22
<b>WG3724485-1</b>	<b>MB</b>							
Sulfate (SO4)			<0.05		mg/L		0.35	06-MAY-22
<b>WG3724577-1</b>	<b>MB</b>							
Sulfate (SO4)			<0.05		mg/L		0.3	06-MAY-22
<b>TDS-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5775596</b>							
<b>WG3724880-3</b>	<b>DUP</b>	<b>L2704221-6</b>						
Total Dissolved Solids		314	316		mg/L	0.8	20	09-MAY-22
<b>WG3724880-2</b>	<b>LCS</b>							
Total Dissolved Solids			96.0		%		85-115	09-MAY-22
<b>WG3724880-1</b>	<b>MB</b>							
Total Dissolved Solids			<2		mg/L		10	09-MAY-22
<b>Batch</b>	<b>R5775817</b>							
<b>WG3725128-2</b>	<b>LCS</b>							
Total Dissolved Solids			90.6		%		85-115	09-MAY-22
<b>WG3725128-1</b>	<b>MB</b>							
Total Dissolved Solids			<2		mg/L		10	09-MAY-22
<b>TSS-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5775556</b>							
<b>WG3724883-3</b>	<b>DUP</b>	<b>L2704221-6</b>						
Total Suspended Solids		5.5	5.0		mg/L	15	20	09-MAY-22
<b>WG3724883-2</b>	<b>LCS</b>							
Total Suspended Solids			96.8		%		85-115	09-MAY-22
<b>WG3724883-1</b>	<b>MB</b>							
Total Suspended Solids			<0.5		mg/L		3	09-MAY-22
<b>Batch</b>	<b>R5777137</b>							
<b>WG3725643-2</b>	<b>LCS</b>							
Total Suspended Solids			95.0		%		85-115	10-MAY-22
<b>WG3725643-1</b>	<b>MB</b>							
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

Page 17 of 18

## 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
<b>Organic / Inorganic Carbon</b>							
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

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 5/4/2022 4:10:00 PM <b>COC Number:</b> ALS-446856736						<b>Containers</b> 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									
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		

<b>Signature</b> Shipped by		<b>Date/Time</b> 5/4/2022 4:10:00 PM	<b>Shipping Details</b> Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone:		<b>ATTN</b>	<b>Special Instructions:</b> Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com
<b>Received by</b> <i>AM</i>		6/5/2022 10:30 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	

<b>Signature</b>  <b>Shipped by</b>  <b>Received by</b> AMI	<b>Data/Time</b> 5/4/2022 4:10:00 PM  6/5/2022 10:30 Temp: 12.0	<b>Shipping Details</b> <b>Method of Shipment:</b> Courier <b>On Ice:</b> yes / no <b>Shipped:</b> Air/Ground <b>Lab Name:</b> ALS Thunder Bay <b>Lab Phone:</b>	<b>ATTN</b>	<b>Special Instructions:</b>  <b>Email Invoice to:</b> rainyriver.accounts1@newgold.com <b>Email Report to:</b> rainyriver.labresults@newgold.com

<b>Drinking Water (DW) Samples (client use)</b>
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:		
Received by				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: 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:

---

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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.94		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	15.33		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Turbidity	3.19		0.10	NTU		09-JUN-22	R5796147
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000101		0.000020	ug/L	05-JUL-22	06-JUL-22	R5813123
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.94		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	15.33		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000428		0.000020	ug/L	05-JUL-22	06-JUL-22	R5813123
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.91		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	15		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.36		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	11.6		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.91		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	14.5		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							

\* Refer 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							
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.08		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	17.56		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							

\* Refer 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							
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.06		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	17.41		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							

\* Refer 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							
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	<0.000020		0.000020	ug/L	05-JUL-22	06-JUL-22	R5813123
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.82		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	14.85		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							

\* Refer 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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							

\* Refer 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							
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.84		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	14.63		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000392		0.000020	ug/L	05-JUL-22	06-JUL-22	R5813123
<b>Aggregate Organics</b>							

\* Refer 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							
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.32		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	18.24		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.61		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	14.44		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							

\* Refer 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							
<b>Field Tests</b>							
pH, Client Supplied	6.98		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	17.49		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000453		0.000020	ug/L	05-JUL-22	06-JUL-22	R5813123
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.03		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	15.14		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							

\* Refer 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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000495		0.000020	ug/L	11-JUL-22	11-JUL-22	R5818919
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.48		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	18.94		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.43		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	17.44		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Turbidity	5.96		0.10	NTU		10-JUN-22	R5796316
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.45		0.10	pH		12-JUN-22	R5796864
Temperature, Client Supplied	18.58		0	Degree C		12-JUN-22	R5796864
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							

\* Refer 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							
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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 &amp; 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 <sub>3</sub> )	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

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
<b>BOD-TB</b>								
<b>Water</b>								
<b>Batch</b>	<b>R5801196</b>							
<b>WG3738025-12</b>	<b>DUP</b>	<b>L2713614-3</b>						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	10-JUN-22
<b>WG3738025-8</b>	<b>DUP</b>	<b>L2713614-5</b>						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	10-JUN-22
<b>WG3738025-10</b>	<b>LCS</b>							
Biochemical Oxygen Demand			104.4		%		85-115	10-JUN-22
<b>WG3738025-6</b>	<b>LCS</b>							
Biochemical Oxygen Demand			96.9		%		85-115	10-JUN-22
<b>WG3738025-5</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	10-JUN-22
<b>WG3738025-9</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	10-JUN-22
<b>Batch</b>	<b>R5803091</b>							
<b>WG3738412-3</b>	<b>DUP</b>	<b>L2713653-5</b>						
Biochemical Oxygen Demand		7.5	3.8	J	mg/L	3.7	10	11-JUN-22
<b>WG3738412-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			97.0		%		85-115	11-JUN-22
<b>WG3738412-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	11-JUN-22
<b>CL-L-IC-N-TB</b>								
<b>Water</b>								
<b>Batch</b>	<b>R5797317</b>							
<b>WG3738100-3</b>	<b>DUP</b>	<b>L2713605-1</b>						
Chloride (Cl)		1.30	1.28		mg/L	1.5	20	11-JUN-22
<b>WG3738100-2</b>	<b>LCS</b>							
Chloride (Cl)			98.0		%		90-110	11-JUN-22
<b>WG3738100-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	11-JUN-22
<b>WG3738100-4</b>	<b>MS</b>	<b>L2713605-2</b>						
Chloride (Cl)			104.4		%		75-125	11-JUN-22
<b>Batch</b>	<b>R5799097</b>							
<b>WG3738103-3</b>	<b>DUP</b>	<b>L2713614-18</b>						
Chloride (Cl)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	13-JUN-22
<b>WG3738103-2</b>	<b>LCS</b>							
Chloride (Cl)			104.0		%		90-110	13-JUN-22
<b>WG3738103-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	13-JUN-22
<b>COD-TB</b>								
<b>Water</b>								



## Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-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
<b>COD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5798201</b>							
<b>WG3738144-3</b>	<b>DUP</b>	<b>L2713731-1</b>						
Chemical Oxygen Demand		13	15		mg/L	13	20	13-JUN-22
<b>WG3738144-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			99.7		%		85-115	13-JUN-22
<b>WG3738144-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	13-JUN-22
<b>WG3738144-4</b>	<b>MS</b>	<b>L2713731-2</b>						
Chemical Oxygen Demand			107.2		%		75-125	13-JUN-22
<b>Batch</b>	<b>R5799616</b>							
<b>WG3738134-3</b>	<b>DUP</b>	<b>L2713605-1</b>						
Chemical Oxygen Demand		75	76		mg/L	1.9	20	14-JUN-22
<b>WG3738134-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			108.7		%		85-115	14-JUN-22
<b>WG3738134-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	14-JUN-22
<b>WG3738134-4</b>	<b>MS</b>	<b>L2713605-2</b>						
Chemical Oxygen Demand			106.5		%		75-125	14-JUN-22
<b>COLOUR-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5796500</b>							
<b>WG3737773-3</b>	<b>DUP</b>	<b>L2713666-1</b>						
Color, True		7.6	7.5		CU	1.3	20	10-JUN-22
<b>WG3737773-2</b>	<b>LCS</b>							
Color, True			99.6		%		85-115	10-JUN-22
<b>WG3737773-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	10-JUN-22
<b>Batch</b>	<b>R5796565</b>							
<b>WG3738086-3</b>	<b>DUP</b>	<b>L2713614-11</b>						
Color, True		117	124		CU	6.1	20	10-JUN-22
<b>WG3738086-2</b>	<b>LCS</b>							
Color, True			99.4		%		85-115	10-JUN-22
<b>WG3738086-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	10-JUN-22
<b>F-IC-N-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5797317</b>							
<b>WG3738100-3</b>	<b>DUP</b>	<b>L2713605-1</b>						
Fluoride (F)		0.048	0.044		mg/L	7.8	20	11-JUN-22
<b>WG3738100-2</b>	<b>LCS</b>							





### Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-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
<b>F-IC-N-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5797317</b>							
<b>WG3738100-2</b>	<b>LCS</b>							
Fluoride (F)			105.6		%		90-110	11-JUN-22
<b>WG3738100-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	11-JUN-22
<b>Batch</b>	<b>R5799097</b>							
<b>WG3738103-3</b>	<b>DUP</b>	<b>L2713614-18</b>						
Fluoride (F)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	13-JUN-22
<b>WG3738103-2</b>	<b>LCS</b>							
Fluoride (F)			103.5		%		90-110	13-JUN-22
<b>WG3738103-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	13-JUN-22
<b>MEHG-T-GCAF-VA</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5813123</b>							
<b>WG3747137-2</b>	<b>DUP</b>	<b>L2713614-8</b>						
Methylmercury (as MeHg)-Total		<0.000020	<0.000020	RPD-NA	ug/L	N/A	30	06-JUL-22
<b>WG3747137-3</b>	<b>LCS</b>							
Methylmercury (as MeHg)-Total			91.3		%		70-130	06-JUL-22
<b>WG3747137-1</b>	<b>MB</b>							
Methylmercury (as MeHg)-Total			<0.000020		ug/L		0.00002	06-JUL-22
<b>Batch</b>	<b>R5818919</b>							
<b>WG3748292-2</b>	<b>DUP</b>	<b>L2714069-2</b>						
Methylmercury (as MeHg)-Total		0.000703	0.000654		ug/L	7.2	30	11-JUL-22
<b>WG3748292-3</b>	<b>LCS</b>							
Methylmercury (as MeHg)-Total			87.4		%		70-130	11-JUL-22
<b>WG3748292-1</b>	<b>MB</b>							
Methylmercury (as MeHg)-Total			<0.000020		ug/L		0.00002	11-JUL-22
<b>WG3748292-4</b>	<b>MS</b>	<b>L2712261-4</b>						
Methylmercury (as MeHg)-Total			80.5		%		60-140	11-JUL-22
<b>PO4-DO-COL-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5799278</b>							
<b>WG3737779-3</b>	<b>DUP</b>	<b>L2713653-4</b>						
Orthophosphate-Dissolved (as P)		0.0018	0.0018		mg/L	2.8	20	13-JUN-22
<b>WG3738094-3</b>	<b>DUP</b>	<b>L2713614-8</b>						
Orthophosphate-Dissolved (as P)		0.0024	0.0034	J	mg/L	0.0010	0.002	13-JUN-22
<b>WG3737779-2</b>	<b>LCS</b>							
Orthophosphate-Dissolved (as P)			116.1		%		80-120	13-JUN-22
<b>WG3738094-2</b>	<b>LCS</b>							



### Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Page 4 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
<b>PO4-DO-COL-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5799278</b>							
<b>WG3738094-2</b>	<b>LCS</b>							
Orthophosphate-Dissolved (as P)			100.2		%		80-120	13-JUN-22
<b>WG3737779-1</b>	<b>MB</b>							
Orthophosphate-Dissolved (as P)			<0.0010		mg/L		0.001	13-JUN-22
<b>WG3738094-1</b>	<b>MB</b>							
Orthophosphate-Dissolved (as P)			<0.0010		mg/L		0.001	13-JUN-22
<b>TKN-F-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5802881</b>							
<b>WG3738125-3</b>	<b>DUP</b>	<b>L2713605-1</b>						
Total Kjeldahl Nitrogen		1.58	1.47		mg/L	6.9	20	15-JUN-22
<b>WG3738127-3</b>	<b>DUP</b>	<b>L2713731-1</b>						
Total Kjeldahl Nitrogen		0.531	0.457		mg/L	15	20	15-JUN-22
<b>WG3738125-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			96.7		%		75-125	15-JUN-22
<b>WG3738127-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			96.1		%		75-125	15-JUN-22
<b>WG3738125-1</b>	<b>MB</b>							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	15-JUN-22
<b>WG3738127-1</b>	<b>MB</b>							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	15-JUN-22
<b>WG3738125-4</b>	<b>MS</b>	<b>L2713605-2</b>						
Total Kjeldahl Nitrogen			127.0		%		70-130	15-JUN-22
<b>WG3738127-4</b>	<b>MS</b>	<b>L2713731-2</b>						
Total Kjeldahl Nitrogen			114.5		%		70-130	15-JUN-22
<b>TOC-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5804774</b>							
<b>WG3739647-3</b>	<b>DUP</b>	<b>L2713768-1</b>						
Total Organic Carbon		3.54	3.56		mg/L	0.5	20	17-JUN-22
<b>WG3739647-2</b>	<b>LCS</b>							
Total Organic Carbon			107.0		%		80-120	17-JUN-22
<b>WG3739647-1</b>	<b>MB</b>							
Total Organic Carbon			<0.50		mg/L		0.5	17-JUN-22
<b>WG3739647-4</b>	<b>MS</b>	<b>L2713768-1</b>						
Total Organic Carbon			107.1		%		70-130	17-JUN-22
<b>Batch</b>	<b>R5805171</b>							
<b>WG3739262-3</b>	<b>DUP</b>	<b>L2713614-1</b>						
Total Organic Carbon		<0.50	<0.50	RPD-NA	mg/L	N/A	20	20-JUN-22
<b>WG3739262-2</b>	<b>LCS</b>							



### Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Page 5 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
<b>TOC-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5805171</b>							
<b>WG3739262-2</b>	<b>LCS</b>							
Total Organic Carbon			107.8		%		80-120	20-JUN-22
<b>WG3739262-1</b>	<b>MB</b>							
Total Organic Carbon			<0.50		mg/L		0.5	20-JUN-22
<b>WG3739262-4</b>	<b>MS</b>	<b>L2713614-1</b>						
Total Organic Carbon			108.2		%		70-130	20-JUN-22
<b>TURBIDITY-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5796147</b>							
<b>WG3737772-3</b>	<b>DUP</b>	<b>L2713614-5</b>						
Turbidity		3.06	2.83		NTU	7.8	15	09-JUN-22
<b>WG3737772-2</b>	<b>LCS</b>							
Turbidity			98.0		%		85-115	09-JUN-22
<b>WG3737772-1</b>	<b>MB</b>							
Turbidity			<0.10		NTU		0.1	09-JUN-22
<b>Batch</b>	<b>R5796316</b>							
<b>WG3737984-3</b>	<b>DUP</b>	<b>L2713605-3</b>						
Turbidity		3.20	3.10		NTU	3.2	15	10-JUN-22
<b>WG3737984-2</b>	<b>LCS</b>							
Turbidity			99.0		%		85-115	10-JUN-22
<b>WG3737984-1</b>	<b>MB</b>							
Turbidity			<0.10		NTU		0.1	10-JUN-22
<b>ACY-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5803740</b>							
<b>WG3738080-3</b>	<b>DUP</b>	<b>L2713614-11</b>						
Acidity (as CaCO3)		0.6	0.4	RPD-NA	mg/L	N/A	20	16-JUN-22
<b>WG3737759-2</b>	<b>LCS</b>							
Acidity (as CaCO3)			114.6		%		85-115	16-JUN-22
<b>WG3738080-2</b>	<b>LCS</b>							
Acidity (as CaCO3)			107.8		%		85-115	16-JUN-22
<b>WG3737759-1</b>	<b>MB</b>							
Acidity (as CaCO3)			2.0		mg/L		3	16-JUN-22
<b>WG3738080-1</b>	<b>MB</b>							
Acidity (as CaCO3)			2.2		mg/L		3	16-JUN-22
<b>ALK-MISA-TB</b>		<b>Effluent</b>						



## Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Page 6 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
<b>ALK-MISA-TB Effluent</b>								
<b>Batch R5804550</b>								
<b>WG3738074-3</b>	<b>DUP</b>	<b>L2713614-6</b>						
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
<b>WG3738074-2</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			106.7		%		85-115	17-JUN-22
<b>WG3738074-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	17-JUN-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	17-JUN-22
<b>Batch R5804702</b>								
<b>WG3739199-8</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			111.3		%		85-115	18-JUN-22
<b>WG3739199-7</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	18-JUN-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	18-JUN-22
<b>CN-FREE-MISA-CFA-WT Effluent</b>								
<b>Batch R5801258</b>								
<b>WG3739435-3</b>	<b>DUP</b>	<b>L2712867-2</b>						
Cyanide, Free		<0.0001	0.0001	RPD-NA	mg/L	N/A	20	14-JUN-22
<b>WG3739435-7</b>	<b>DUP</b>	<b>L2713614-4</b>						
Cyanide, Free		0.0011	0.0011	RPD-NA	mg/L	N/A	20	14-JUN-22
<b>WG3739435-2</b>	<b>LCS</b>							
Cyanide, Free			92.7		%		80-120	14-JUN-22
<b>WG3739435-6</b>	<b>LCS</b>							
Cyanide, Free			92.5		%		80-120	14-JUN-22
<b>WG3739435-1</b>	<b>MB</b>							
Cyanide, Free			<0.0001		mg/L		0.002	14-JUN-22
<b>WG3739435-5</b>	<b>MB</b>							
Cyanide, Free			0.0002		mg/L		0.002	14-JUN-22
<b>WG3739435-4</b>	<b>MS</b>	<b>L2712867-2</b>						
Cyanide, Free			99.5		%		75-125	14-JUN-22
<b>WG3739435-8</b>	<b>MS</b>	<b>L2713614-4</b>						
Cyanide, Free			102.7		%		75-125	14-JUN-22
<b>CN-T-MISA-CFA-WT Effluent</b>								
<b>Batch R5801258</b>								
<b>WG3739435-3</b>	<b>DUP</b>	<b>L2712867-2</b>						
Cyanide, Total		<0.0002	<0.0002	RPD-NA	mg/L	N/A	20	14-JUN-22
<b>WG3739435-7</b>	<b>DUP</b>	<b>L2713614-4</b>						



## Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Page 7 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
<b>CN-T-MISA-CFA-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5801258</b>							
<b>WG3739435-7</b>	<b>DUP</b>	<b>L2713614-4</b>						
Cyanide, Total		0.0012	0.0010	RPD-NA	mg/L	N/A	20	14-JUN-22
<b>WG3739435-2</b>	<b>LCS</b>							
Cyanide, Total			94.5		%		80-120	14-JUN-22
<b>WG3739435-6</b>	<b>LCS</b>							
Cyanide, Total			96.9		%		80-120	14-JUN-22
<b>WG3739435-1</b>	<b>MB</b>							
Cyanide, Total			<0.0002		mg/L		0.002	14-JUN-22
<b>WG3739435-5</b>	<b>MB</b>							
Cyanide, Total			<0.0002		mg/L		0.002	14-JUN-22
<b>WG3739435-4</b>	<b>MS</b>	<b>L2712867-2</b>						
Cyanide, Total			96.8		%		75-125	14-JUN-22
<b>WG3739435-8</b>	<b>MS</b>	<b>L2713614-4</b>						
Cyanide, Total			93.7		%		75-125	14-JUN-22
<b>CN-WAD-MISA-CFA-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5801258</b>							
<b>WG3739435-3</b>	<b>DUP</b>	<b>L2712867-2</b>						
Cyanide, Weak Acid Diss		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	14-JUN-22
<b>WG3739435-7</b>	<b>DUP</b>	<b>L2713614-4</b>						
Cyanide, Weak Acid Diss		0.0005	0.0005	RPD-NA	mg/L	N/A	20	14-JUN-22
<b>WG3739435-2</b>	<b>LCS</b>							
Cyanide, Weak Acid Diss			102.7		%		80-120	14-JUN-22
<b>WG3739435-6</b>	<b>LCS</b>							
Cyanide, Weak Acid Diss			99.8		%		80-120	14-JUN-22
<b>WG3739435-1</b>	<b>MB</b>							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	14-JUN-22
<b>WG3739435-5</b>	<b>MB</b>							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	14-JUN-22
<b>WG3739435-4</b>	<b>MS</b>	<b>L2712867-2</b>						
Cyanide, Weak Acid Diss			102.9		%		75-125	14-JUN-22
<b>WG3739435-8</b>	<b>MS</b>	<b>L2713614-4</b>						
Cyanide, Weak Acid Diss			105.4		%		75-125	14-JUN-22
<b>DOC-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5802420</b>							
<b>WG3739467-3</b>	<b>DUP</b>	<b>WG3739467-5</b>						
Dissolved Organic Carbon		5.26	5.18		mg/L	1.7	25	15-JUN-22
<b>WG3739467-2</b>	<b>LCS</b>							
Dissolved Organic Carbon			103.3		%		70-130	15-JUN-22



### Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Page 8 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
<b>DOC-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5802420</b>							
<b>WG3739467-1 MB</b>								
Dissolved Organic Carbon			<0.50		mg/L		0.5	15-JUN-22
<b>Batch</b>	<b>R5803956</b>							
<b>WG3740079-3 DUP</b>		<b>WG3740079-5</b>						
Dissolved Organic Carbon		2.94	3.45		mg/L	16	25	16-JUN-22
<b>WG3740079-2 LCS</b>								
Dissolved Organic Carbon			102.7		%		70-130	16-JUN-22
<b>WG3740079-1 MB</b>								
Dissolved Organic Carbon			<0.50		mg/L		0.5	16-JUN-22
<b>Batch</b>	<b>R5804000</b>							
<b>WG3740076-3 DUP</b>		<b>WG3740076-5</b>						
Dissolved Organic Carbon		49.8	52.9		mg/L	6.0	25	16-JUN-22
<b>WG3740076-2 LCS</b>								
Dissolved Organic Carbon			97.0		%		70-130	16-JUN-22
<b>WG3740076-1 MB</b>								
Dissolved Organic Carbon			<0.50		mg/L		0.5	16-JUN-22
<b>EC-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5797639</b>							
<b>WG3737757-2 LCS</b>								
Conductivity (EC)			100.9		%		90-110	11-JUN-22
<b>WG3737757-1 MB</b>								
Conductivity (EC)			0.2		uS/cm		2	11-JUN-22
<b>Batch</b>	<b>R5804326</b>							
<b>WG3741016-2 LCS</b>								
Conductivity (EC)			101.1		%		90-110	16-JUN-22
<b>WG3741016-1 MB</b>								
Conductivity (EC)			0.2		uS/cm		2	16-JUN-22
<b>Batch</b>	<b>R5804550</b>							
<b>WG3738074-2 LCS</b>								
Conductivity (EC)			99.6		%		90-110	17-JUN-22
<b>WG3738074-1 MB</b>								
Conductivity (EC)			0.4		uS/cm		2	17-JUN-22
<b>HG-DIS-WT</b>		<b>Effluent</b>						



## Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Page 9 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
<b>HG-DIS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5799192</b>							
<b>WG3739174-3</b>	<b>DUP</b>	<b>L2713605-1</b>						
Mercury (Hg)-Dissolved		0.000005	0.000005		mg/L	9.5	20	14-JUN-22
<b>WG3739174-2</b>	<b>LCS</b>							
Mercury (Hg)-Dissolved			107.0		%		80-120	14-JUN-22
<b>WG3739174-1</b>	<b>MB</b>							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.000005	14-JUN-22
<b>WG3739174-4</b>	<b>MS</b>	<b>L2713605-2</b>						
Mercury (Hg)-Dissolved			99.0		%		70-130	14-JUN-22
<b>Batch</b>	<b>R5799219</b>							
<b>WG3739176-3</b>	<b>DUP</b>	<b>L2713614-17</b>						
Mercury (Hg)-Dissolved		0.000005	0.000005		mg/L	1.6	20	14-JUN-22
<b>WG3739176-2</b>	<b>LCS</b>							
Mercury (Hg)-Dissolved			111.0		%		80-120	14-JUN-22
<b>WG3739176-1</b>	<b>MB</b>							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.000005	14-JUN-22
<b>WG3739176-4</b>	<b>MS</b>	<b>L2713614-18</b>						
Mercury (Hg)-Dissolved			99.9		%		70-130	14-JUN-22
<b>HG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5799298</b>							
<b>WG3739169-3</b>	<b>DUP</b>	<b>L2713605-1</b>						
Mercury (Hg)-Total		0.000010	0.000010		mg/L	2.2	20	14-JUN-22
<b>WG3739169-2</b>	<b>LCS</b>							
Mercury (Hg)-Total			103.0		%		80-120	14-JUN-22
<b>WG3739169-1</b>	<b>MB</b>							
Mercury (Hg)-Total			<0.000005		mg/L		0.000005	14-JUN-22
<b>WG3739169-4</b>	<b>MS</b>	<b>L2713605-2</b>						
Mercury (Hg)-Total			106.8		%		70-130	14-JUN-22
<b>Batch</b>	<b>R5799356</b>							
<b>WG3739171-3</b>	<b>DUP</b>	<b>L2713614-18</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	14-JUN-22
<b>WG3739171-2</b>	<b>LCS</b>							
Mercury (Hg)-Total			110.0		%		80-120	14-JUN-22
<b>WG3739171-1</b>	<b>MB</b>							
Mercury (Hg)-Total			<0.000005		mg/L		0.000005	14-JUN-22
<b>WG3739171-4</b>	<b>MS</b>	<b>L2713614-18</b>						
Mercury (Hg)-Total			105.4		%		70-130	14-JUN-22
<b>MET-D-MISA-TB</b>	<b>Effluent</b>							



### Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Page 10 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R580222</b>							
<b>WG3737804-7</b>	<b>DUP</b>	<b>L2713614-11</b>						
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

Page 11 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
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5802222</b>							
<b>WG3737804-7</b>	<b>DUP</b>	<b>L2713614-11</b>						
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
<b>WG3737804-10</b>	<b>LCS</b>							
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

Page 12 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
<b>MET-D-MISA-TB</b>	<b>Effluent</b>							
<b>Batch</b>	<b>R5802222</b>							
<b>WG3737804-10</b>	<b>LCS</b>							
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
<b>WG3737804-6</b>	<b>LCS</b>							
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

Page 13 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5802222</b>							
<b>WG3737804-6</b>	<b>LCS</b>							
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
<b>WG3737804-5</b>	<b>MB</b>							
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

Page 14 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5802222</b>							
<b>WG3737804-5 MB</b>								
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
<b>WG3737804-9 MB</b>								
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



## Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Page 15 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
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5802222</b>							
<b>WG3737804-9</b>	<b>MB</b>							
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
<b>WG3737804-8</b>	<b>MS</b>	<b>L2713614-12</b>						
Aluminum (Al)-Dissolved			106.2		%		70-130	15-JUN-22



### Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Page 16 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
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5802222</b>							
<b>WG3737804-8 MS</b>		<b>L2713614-12</b>						
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

Page 17 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5802222</b>							
<b>WG3737804-8 MS</b>		<b>L2713614-12</b>						
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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5801156</b>							
<b>WG3738000-3 DUP</b>		<b>L2713614-15</b>						
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

Page 18 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5801156</b>							
<b>WG3738000-3</b>	<b>DUP</b>	<b>L2713614-15</b>						
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
<b>WG3738000-2</b>	<b>LCS</b>							
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

Page 19 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5801156</b>							
<b>WG3738000-2</b>	<b>LCS</b>							
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
<b>WG3738000-6</b>	<b>LCS</b>							
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

Page 20 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5801156</b>							
<b>WG3738000-6</b>	<b>LCS</b>							
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
<b>WG3738000-1</b>	<b>MB</b>							
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

Page 21 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5801156</b>							
<b>WG3738000-1</b>	<b>MB</b>							
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
<b>WG3738000-5</b>	<b>MB</b>							



## Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Page 22 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5801156</b>							
<b>WG3738000-5 MB</b>								
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

Page 23 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5801156</b>							
<b>WG3738000-5 MB</b>								
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
<b>WG3738000-4 MS</b>		<b>L2713614-16</b>						
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

Page 24 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5801156</b>							
<b>WG3738000-4 MS</b>		<b>L2713614-16</b>						
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
<b>NH3-MISA-F-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5800406</b>							
<b>WG3738116-3 DUP</b>		<b>L2713605-1</b>						
Ammonia, Total (as N)		0.006	0.004	RPD-NA	mg/L	N/A	20	14-JUN-22
<b>WG3738116-2 LCS</b>								
Ammonia, Total (as N)			92.8		%		85-115	14-JUN-22
<b>WG3738116-1 MB</b>								
Ammonia, Total (as N)			0.004		mg/L		0.005	14-JUN-22
<b>Batch</b>	<b>R5805074</b>							
<b>WG3738122-2 LCS</b>								
Ammonia, Total (as N)			101.5		%		85-115	17-JUN-22
<b>WG3738122-1 MB</b>								
Ammonia, Total (as N)			<0.002		mg/L		0.005	17-JUN-22
<b>NO2-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5797317</b>							
<b>WG3738100-3 DUP</b>		<b>L2713605-1</b>						
Nitrite (as N)		<0.001	<0.001	RPD-NA	mg/L	N/A	20	11-JUN-22
<b>WG3738100-2 LCS</b>								
Nitrite (as N)			96.8		%		90-110	11-JUN-22
<b>WG3738100-1 MB</b>								
Nitrite (as N)			<0.001		mg/L		0.01	11-JUN-22
<b>WG3738100-4 MS</b>		<b>L2713605-2</b>						
Nitrite (as N)			89.6		%		75-125	11-JUN-22



## Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Page 25 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
<b>NO2-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5799097</b>							
<b>WG3738103-3</b>	<b>DUP</b>	<b>L2713614-18</b>						
Nitrite (as N)		<0.001	<0.001	RPD-NA	mg/L	N/A	20	13-JUN-22
<b>WG3738103-2</b>	<b>LCS</b>							
Nitrite (as N)			104.0		%		90-110	13-JUN-22
<b>WG3738103-1</b>	<b>MB</b>							
Nitrite (as N)			<0.001		mg/L		0.01	13-JUN-22
<b>NO3-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5797317</b>							
<b>WG3738100-3</b>	<b>DUP</b>	<b>L2713605-1</b>						
Nitrate (as N)		<0.002	<0.002	RPD-NA	mg/L	N/A	20	11-JUN-22
<b>WG3738100-2</b>	<b>LCS</b>							
Nitrate (as N)			99.5		%		90-110	11-JUN-22
<b>WG3738100-1</b>	<b>MB</b>							
Nitrate (as N)			<0.002		mg/L		0.02	11-JUN-22
<b>WG3738100-4</b>	<b>MS</b>	<b>L2713605-2</b>						
Nitrate (as N)			104.3		%		75-125	11-JUN-22
<b>Batch</b>	<b>R5799097</b>							
<b>WG3738103-3</b>	<b>DUP</b>	<b>L2713614-18</b>						
Nitrate (as N)		<0.002	<0.002	RPD-NA	mg/L	N/A	20	13-JUN-22
<b>WG3738103-2</b>	<b>LCS</b>							
Nitrate (as N)			104.1		%		90-110	13-JUN-22
<b>WG3738103-1</b>	<b>MB</b>							
Nitrate (as N)			<0.002		mg/L		0.02	13-JUN-22
<b>OGG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5800225</b>							
<b>WG3739443-2</b>	<b>LCS</b>							
Oil and Grease, Total			98.2		%		50-150	14-JUN-22
<b>WG3739443-1</b>	<b>MB</b>							
Oil and Grease, Total			<0.2		mg/L		1	14-JUN-22
<b>PH-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5797639</b>							
<b>WG3737757-2</b>	<b>LCS</b>							
pH			7.01		pH		6.9-7.1	11-JUN-22



## Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Page 26 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
<b>PH-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5804326</b>							
<b>WG3741016-2</b>	<b>LCS</b>							
pH			6.94		pH		6.9-7.1	16-JUN-22
<b>Batch</b>	<b>R5804550</b>							
<b>WG3738074-2</b>	<b>LCS</b>							
pH			6.98		pH		6.9-7.1	17-JUN-22
<b>SO4-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5797317</b>							
<b>WG3738100-3</b>	<b>DUP</b>	<b>L2713605-1</b>						
Sulfate (SO4)		16.4	16.1		mg/L	1.7	20	11-JUN-22
<b>WG3738100-2</b>	<b>LCS</b>							
Sulfate (SO4)			99.6		%		90-110	11-JUN-22
<b>WG3738100-1</b>	<b>MB</b>							
Sulfate (SO4)			<0.05		mg/L		0.3	11-JUN-22
<b>WG3738100-4</b>	<b>MS</b>	<b>L2713605-2</b>						
Sulfate (SO4)			102.6		%		75-125	11-JUN-22
<b>Batch</b>	<b>R5799097</b>							
<b>WG3738103-3</b>	<b>DUP</b>	<b>L2713614-18</b>						
Sulfate (SO4)		<0.05	<0.05	RPD-NA	mg/L	N/A	20	13-JUN-22
<b>WG3738103-2</b>	<b>LCS</b>							
Sulfate (SO4)			105.5		%		90-110	13-JUN-22
<b>WG3738103-1</b>	<b>MB</b>							
Sulfate (SO4)			0.30		mg/L		0.3	13-JUN-22
<b>WG3738103-4</b>	<b>MS</b>	<b>L2713648-1</b>						
Sulfate (SO4)			N/A	MS-B	%		-	13-JUN-22
<b>TDS-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5796737</b>							
<b>WG3738231-3</b>	<b>DUP</b>	<b>L2713614-8</b>						
Total Dissolved Solids		312	322		mg/L	3.5	20	10-JUN-22
<b>WG3738231-2</b>	<b>LCS</b>							
Total Dissolved Solids			98.9		%		85-115	10-JUN-22
<b>WG3738231-1</b>	<b>MB</b>							
Total Dissolved Solids			<2		mg/L		10	10-JUN-22
<b>Batch</b>	<b>R5796832</b>							
<b>WG3738421-2</b>	<b>LCS</b>							
Total Dissolved Solids			94.5		%		85-115	11-JUN-22
<b>WG3738421-1</b>	<b>MB</b>							





### Quality Control Report

Workorder: L2713614

Report Date: 15-JUL-22

Page 27 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
<b>TDS-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5796832</b>							
<b>WG3738421-1 MB</b>								
Total Dissolved Solids			2		mg/L		10	11-JUN-22
<b>TSS-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5796728</b>							
<b>WG3738233-3 DUP</b>		<b>L2713614-8</b>						
Total Suspended Solids		3.5	3.5		mg/L	5.9	20	10-JUN-22
<b>WG3738233-2 LCS</b>								
Total Suspended Solids			102.8		%		85-115	10-JUN-22
<b>WG3738233-1 MB</b>								
Total Suspended Solids			<0.5		mg/L		3	10-JUN-22
<b>Batch</b>	<b>R5796824</b>							
<b>WG3738420-2 LCS</b>								
Total Suspended Solids			99.0		%		85-115	11-JUN-22
<b>WG3738420-1 MB</b>								
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

Page 28 of 30

## 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

Page 29 of 30

## Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Physical Tests</b>							
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
<b>Leachable Anions &amp; Nutrients</b>							
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

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.



L2713614-COFC

CHAIN OF CUSTODY RECORD - ALS-447204494

L2713614

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 6/8/2022 10:47:00 AM <b>COC Number:</b> ALS-447204494					<b>Containers</b>  <b>Filtered</b>  <b>Preservatives</b>		SW Kit	Ra-226 Bottle								Number of Containers	Comments
					N	N											
				<b>Date and Time</b>	<b>Matrix</b>	NG-SW-P-TB	RA226-MIMER-BE										
<b>Sample Code</b>																	
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				

<b>Signature</b>	<b>Date/Time</b>	<b>Shipping Details</b>	<b>ATTN</b>	<b>Special Instructions:</b>
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: rainyriver.accounts1@newgold.com
		Shipped: Air/Ground		Email Report to: rainyriver.labresults@newgold.com
		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				Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com	
Received by				On Ice: yes / no					
NP3		09/06/22 9:35 AM		Shipped: Air/Ground					
				Lab Name: ALS Thunder Bay					
				Lab Phone:					

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:		Email Invoice to: rainyriver.accounts1@newgold.com Email Report to: rainyriver.labresults@newgold.com
Received by NP3	09/06/22 9:35 AM			

Temp - 13.7°C

<b>Drinking Water (DW) Samples (client use)</b>
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	Data/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:

---

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							
<b>Field Tests</b>							
pH, Client Supplied	6.63		0.10	pH		11-JUL-22	R5820117
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000904		0.000020	ug/L	12-AUG-22	12-AUG-22	R5840199
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	2.0	PEHT	2.0	mg/L		04-AUG-22	R5838178
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000935		0.000020	ug/L	12-AUG-22	12-AUG-22	R5840199
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.96		0.10	pH		11-JUL-22	R5820117
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0	PEHT	2.0	mg/L		04-AUG-22	R5838178
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
Cyanide, Free	<0.0001	<W	0.0020	mg/L		12-JUL-22	R5821780
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0	PEHT	2.0	mg/L		04-AUG-22	R5838178
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	2.1	PEHT	2.0	mg/L		04-AUG-22	R5838178
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							

\* Refer 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							
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0	PEHT	2.0	mg/L		04-AUG-22	R5838178
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							

\* Refer 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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0	PEHT	2.0	mg/L		04-AUG-22	R5838178
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Total Dissolved Solids	238		20	mg/L		10-JUL-22	R5820266
Turbidity	2.27		0.10	NTU		11-JUL-22	R5820758
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0	PEHT	2.0	mg/L		04-AUG-22	R5838178
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0	PEHT	2.0	mg/L		04-AUG-22	R5838178
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.26		0.10	pH		11-JUL-22	R5820117
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0	PEHT	2.0	mg/L		04-AUG-22	R5838178
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							

\* Refer 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							
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0	PEHT	2.0	mg/L		04-AUG-22	R5838178
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.76		0.10	pH		11-JUL-22	R5820117
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0	PEHT	2.0	mg/L		04-AUG-22	R5838178
<b>Total Metals</b>							

\* Refer 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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							

\* Refer 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							
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0	PEHT	2.0	mg/L		04-AUG-22	R5838178
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0	PEHT	2.0	mg/L		04-AUG-22	R5838178
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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 <sub>3</sub> )	APHA 2310 B - Potentiometric Titration
ACY-MISA-TB	Effluent	Acidity (as CaCO <sub>3</sub> )	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 <sub>3</sub> )	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 <sub>3</sub> )	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
<b>ACIDITY-WT</b>								
	Water							
<b>Batch</b>	<b>R5838178</b>							
<b>WG3754583-3</b>	<b>DUP</b>	<b>L2721276-12</b>						
Acidity (as CaCO3)		<2.0	<2.0	RPD-NA	mg/L	N/A	20	04-AUG-22
<b>WG3754583-2</b>	<b>LCS</b>							
Acidity (as CaCO3)			102		%		85-115	04-AUG-22
<b>WG3754583-1</b>	<b>MB</b>							
Acidity (as CaCO3)			<2.0		mg/L		3	04-AUG-22
<b>BOD-TB</b>								
	Water							
<b>Batch</b>	<b>R5822502</b>							
<b>WG3747839-3</b>	<b>DUP</b>	<b>L2721273-1</b>						
Biochemical Oxygen Demand		3.5	3.7		mg/L	5.6	30	10-JUL-22
<b>WG3747839-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			103.5		%		85-115	10-JUL-22
<b>WG3747839-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	10-JUL-22
<b>CL-L-IC-N-TB</b>								
	Water							
<b>Batch</b>	<b>R5820796</b>							
<b>WG3747869-3</b>	<b>DUP</b>	<b>L2721276-7</b>						
Chloride (Cl)		3.85	3.89		mg/L	1.0	20	11-JUL-22
<b>WG3747870-3</b>	<b>DUP</b>	<b>L2721281-11</b>						
Chloride (Cl)		0.60	0.58		mg/L	3.1	20	11-JUL-22
<b>WG3747869-2</b>	<b>LCS</b>							
Chloride (Cl)			101.9		%		90-110	11-JUL-22
<b>WG3747870-2</b>	<b>LCS</b>							
Chloride (Cl)			100.9		%		90-110	11-JUL-22
<b>WG3747869-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	11-JUL-22
<b>WG3747870-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	11-JUL-22
<b>WG3747869-4</b>	<b>MS</b>	<b>L2721276-8</b>						
Chloride (Cl)			99.2		%		75-125	11-JUL-22
<b>WG3747870-4</b>	<b>MS</b>	<b>L2721281-12</b>						
Chloride (Cl)			77.8		%		75-125	11-JUL-22
<b>COD-TB</b>								
	Water							
<b>Batch</b>	<b>R5821528</b>							
<b>WG3747819-3</b>	<b>DUP</b>	<b>L2721274-1</b>						
Chemical Oxygen Demand		12	12		mg/L	1.8	20	12-JUL-22
<b>WG3747819-2</b>	<b>LCS</b>							





### Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Page 2 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
<b>COD-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5821528</b>							
<b>WG3747819-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			107.5		%		85-115	12-JUL-22
<b>WG3747819-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	12-JUL-22
<b>WG3747819-4</b>	<b>MS</b>	<b>L2721274-2</b>						
Chemical Oxygen Demand			109.6		%		75-125	12-JUL-22
<b>COLOUR-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5820917</b>							
<b>WG3747862-3</b>	<b>DUP</b>	<b>L2721276-6</b>						
Color, True		194	195		CU	0.6	20	11-JUL-22
<b>WG3747863-3</b>	<b>DUP</b>	<b>L2721276-7</b>						
Color, True		311	313		CU	0.7	20	11-JUL-22
<b>WG3747862-2</b>	<b>LCS</b>							
Color, True			98.9		%		85-115	11-JUL-22
<b>WG3747863-2</b>	<b>LCS</b>							
Color, True			102.2		%		85-115	11-JUL-22
<b>WG3747862-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	11-JUL-22
<b>WG3747863-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	11-JUL-22
<b>F-IC-N-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5820796</b>							
<b>WG3747869-3</b>	<b>DUP</b>	<b>L2721276-7</b>						
Fluoride (F)		0.042	0.035		mg/L	20	20	11-JUL-22
<b>WG3747870-3</b>	<b>DUP</b>	<b>L2721281-11</b>						
Fluoride (F)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	11-JUL-22
<b>WG3747869-2</b>	<b>LCS</b>							
Fluoride (F)			107.0		%		90-110	11-JUL-22
<b>WG3747870-2</b>	<b>LCS</b>							
Fluoride (F)			104.8		%		90-110	11-JUL-22
<b>WG3747869-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	11-JUL-22
<b>WG3747870-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	11-JUL-22
<b>WG3747869-4</b>	<b>MS</b>	<b>L2721276-8</b>						
Fluoride (F)			104.0		%		75-125	11-JUL-22



### Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Page 3 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
<b>F-IC-N-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5821823</b>							
<b>WG3748915-3</b>	<b>DUP</b>	<b>L2721934-1</b>						
Fluoride (F)		0.045	0.044		mg/L	1.0	20	13-JUL-22
<b>WG3748915-2</b>	<b>LCS</b>							
Fluoride (F)			101.1		%		90-110	13-JUL-22
<b>WG3748915-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	13-JUL-22
<b>WG3747870-4</b>	<b>MS</b>	<b>L2721281-12</b>						
Fluoride (F)			88.1		%		75-125	13-JUL-22
<b>WG3748915-4</b>	<b>MS</b>	<b>L2721934-2</b>						
Fluoride (F)			86.2		%		75-125	13-JUL-22
<b>MEHG-T-GCAF-VA</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5840199</b>							
<b>WG3757198-2</b>	<b>DUP</b>	<b>L2724410-19</b>						
Methylmercury (as MeHg)-Total		0.00107	0.00100		ug/L	6.6	30	12-AUG-22
<b>WG3757198-3</b>	<b>LCS</b>							
Methylmercury (as MeHg)-Total			90.6		%		70-130	12-AUG-22
<b>WG3757198-1</b>	<b>MB</b>							
Methylmercury (as MeHg)-Total			<0.000020		ug/L		0.00002	12-AUG-22
<b>WG3757198-4</b>	<b>MS</b>	<b>L2724678-2</b>						
Methylmercury (as MeHg)-Total			97.6		%		60-140	12-AUG-22
<b>PO4-DO-COL-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5821812</b>							
<b>WG3747865-3</b>	<b>DUP</b>	<b>L2721273-1</b>						
Orthophosphate-Dissolved (as P)		0.0027	0.0029		mg/L	8.9	20	11-JUL-22
<b>WG3747865-2</b>	<b>LCS</b>							
Orthophosphate-Dissolved (as P)			107.4		%		80-120	11-JUL-22
<b>WG3747865-1</b>	<b>MB</b>							
Orthophosphate-Dissolved (as P)			<0.0010		mg/L		0.001	11-JUL-22
<b>WG3747865-4</b>	<b>MS</b>	<b>L2721273-2</b>						
Orthophosphate-Dissolved (as P)			109.4		%		70-130	11-JUL-22
<b>Batch</b>	<b>R5822227</b>							
<b>WG3748908-3</b>	<b>DUP</b>	<b>L2721912-1</b>						
Orthophosphate-Dissolved (as P)		0.0191	0.0179		mg/L	6.4	20	14-JUL-22
<b>WG3748908-2</b>	<b>LCS</b>							
Orthophosphate-Dissolved (as P)			97.2		%		80-120	14-JUL-22
<b>WG3748908-1</b>	<b>MB</b>							
Orthophosphate-Dissolved (as P)			<0.0010		mg/L		0.001	14-JUL-22



### Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Page 4 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
<b>TKN-F-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5821869</b>							
<b>WG3747811-3</b>	<b>DUP</b>	<b>L2721274-1</b>						
Total Kjeldahl Nitrogen		20.1	22.9		mg/L	13	20	12-JUL-22
<b>WG3747811-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			122.9		%		75-125	12-JUL-22
<b>WG3747811-1</b>	<b>MB</b>							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	12-JUL-22
<b>TOC-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5824836</b>							
<b>WG3749840-3</b>	<b>DUP</b>	<b>WG3749840-5</b>						
Total Organic Carbon		39.9	38.4		mg/L	3.8	20	19-JUL-22
<b>WG3749840-2</b>	<b>LCS</b>							
Total Organic Carbon			92.0		%		80-120	19-JUL-22
<b>WG3749840-1</b>	<b>MB</b>							
Total Organic Carbon			<0.50		mg/L		0.5	19-JUL-22
<b>WG3749840-4</b>	<b>MS</b>	<b>WG3749840-5</b>						
Total Organic Carbon			N/A	MS-B	%		-	19-JUL-22
<b>Batch</b>	<b>R5827299</b>							
<b>WG3748813-3</b>	<b>DUP</b>	<b>L2721655-1</b>						
Total Organic Carbon		154	168		mg/L	8.8	20	20-JUL-22
<b>WG3748813-2</b>	<b>LCS</b>							
Total Organic Carbon			105.9		%		80-120	20-JUL-22
<b>WG3748813-1</b>	<b>MB</b>							
Total Organic Carbon			<0.50		mg/L		0.5	20-JUL-22
<b>WG3748813-4</b>	<b>MS</b>	<b>L2721655-1</b>						
Total Organic Carbon			N/A	MS-B	%		-	20-JUL-22
<b>TURBIDITY-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5820758</b>							
<b>WG3748169-3</b>	<b>DUP</b>	<b>L2721154-1</b>						
Turbidity		32.4	32.8		NTU	1.2	15	11-JUL-22
<b>WG3748169-6</b>	<b>DUP</b>	<b>L2721276-10</b>						
Turbidity		7.69	7.34		NTU	4.7	15	11-JUL-22
<b>WG3748169-2</b>	<b>LCS</b>							
Turbidity			99.9		%		85-115	11-JUL-22
<b>WG3748169-5</b>	<b>LCS</b>							
Turbidity			99.9		%		85-115	11-JUL-22
<b>WG3748169-1</b>	<b>MB</b>							
Turbidity			<0.10		NTU		0.1	11-JUL-22
<b>WG3748169-4</b>	<b>MB</b>							



### Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Page 5 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
<b>TURBIDITY-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5820758</b>							
<b>WG3748169-4</b>	<b>MB</b>							
Turbidity			<0.10		NTU		0.1	11-JUL-22
<b>ACY-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5828132</b>							
<b>WG3747856-2</b>	<b>LCS</b>							
Acidity (as CaCO3)			104.9		%		85-115	22-JUL-22
<b>WG3747856-1</b>	<b>MB</b>							
Acidity (as CaCO3)			1.6		mg/L		3	22-JUL-22
<b>ALK-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5822697</b>							
<b>WG3747850-3</b>	<b>DUP</b>	<b>L2721274-3</b>						
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
<b>WG3747850-2</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			110.9		%		85-115	15-JUL-22
<b>WG3747850-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			0.4		mg/L		2	15-JUL-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	15-JUL-22
<b>CN-FREE-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5821780</b>							
<b>WG3748608-3</b>	<b>DUP</b>	<b>L2721276-1</b>						
Cyanide, Free		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	12-JUL-22
<b>WG3748608-7</b>	<b>DUP</b>	<b>L2721273-2</b>						
Cyanide, Free		0.0005	0.0007	RPD-NA	mg/L	N/A	20	12-JUL-22
<b>WG3748608-2</b>	<b>LCS</b>							
Cyanide, Free			102.7		%		80-120	12-JUL-22
<b>WG3748608-6</b>	<b>LCS</b>							
Cyanide, Free			102.8		%		80-120	12-JUL-22
<b>WG3748608-1</b>	<b>MB</b>							
Cyanide, Free			0.0004		mg/L		0.002	12-JUL-22
<b>WG3748608-5</b>	<b>MB</b>							
Cyanide, Free			<0.0001		mg/L		0.002	12-JUL-22
<b>WG3748608-4</b>	<b>MS</b>	<b>L2721276-1</b>						
Cyanide, Free			103.9		%		75-125	12-JUL-22
<b>WG3748608-8</b>	<b>MS</b>	<b>L2721273-2</b>						
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
<b>CN-T-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5821780</b>							
<b>WG3748608-3</b>	<b>DUP</b>	<b>L2721276-1</b>						
Cyanide, Total		0.0010	<0.0002	RPD-NA	mg/L	N/A	20	12-JUL-22
<b>WG3748608-7</b>	<b>DUP</b>	<b>L2721273-2</b>						
Cyanide, Total		0.0002	0.0002	RPD-NA	mg/L	N/A	20	12-JUL-22
<b>WG3748608-2</b>	<b>LCS</b>							
Cyanide, Total			96.3		%		80-120	12-JUL-22
<b>WG3748608-6</b>	<b>LCS</b>							
Cyanide, Total			98.2		%		80-120	12-JUL-22
<b>WG3748608-1</b>	<b>MB</b>							
Cyanide, Total			<0.0002		mg/L		0.002	12-JUL-22
<b>WG3748608-5</b>	<b>MB</b>							
Cyanide, Total			<0.0002		mg/L		0.002	12-JUL-22
<b>WG3748608-4</b>	<b>MS</b>	<b>L2721276-1</b>						
Cyanide, Total			85.7		%		75-125	12-JUL-22
<b>WG3748608-8</b>	<b>MS</b>	<b>L2721273-2</b>						
Cyanide, Total			91.7		%		75-125	12-JUL-22
<b>CN-WAD-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5821780</b>							
<b>WG3748608-3</b>	<b>DUP</b>	<b>L2721276-1</b>						
Cyanide, Weak Acid Diss		0.0003	<0.0001	RPD-NA	mg/L	N/A	20	12-JUL-22
<b>WG3748608-7</b>	<b>DUP</b>	<b>L2721273-2</b>						
Cyanide, Weak Acid Diss		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	12-JUL-22
<b>WG3748608-2</b>	<b>LCS</b>							
Cyanide, Weak Acid Diss			110.1		%		80-120	12-JUL-22
<b>WG3748608-6</b>	<b>LCS</b>							
Cyanide, Weak Acid Diss			111.4		%		80-120	12-JUL-22
<b>WG3748608-1</b>	<b>MB</b>							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	12-JUL-22
<b>WG3748608-5</b>	<b>MB</b>							
Cyanide, Weak Acid Diss			0.0002		mg/L		0.002	12-JUL-22
<b>WG3748608-4</b>	<b>MS</b>	<b>L2721276-1</b>						
Cyanide, Weak Acid Diss			105.3		%		75-125	12-JUL-22
<b>WG3748608-8</b>	<b>MS</b>	<b>L2721273-2</b>						
Cyanide, Weak Acid Diss			106.3		%		75-125	12-JUL-22

**DOC-WT**                      **Effluent**



## Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Page 7 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
<b>DOC-WT</b>		<b>Effluent</b>						
<b>Batch R5823558</b>								
<b>WG3749410-3</b>	<b>DUP</b>	<b>WG3749410-5</b>						
Dissolved Organic Carbon		32.7	33.2		mg/L	1.5	25	15-JUL-22
<b>WG3749410-2</b>	<b>LCS</b>		99.3		%		70-130	15-JUL-22
Dissolved Organic Carbon								
<b>WG3749410-1</b>	<b>MB</b>		<0.50		mg/L		0.5	15-JUL-22
Dissolved Organic Carbon								
<b>Batch R5827301</b>								
<b>WG3748990-3</b>	<b>DUP</b>	<b>WG3748990-5</b>						
Dissolved Organic Carbon		<0.50	<0.50	RPD-NA	mg/L	N/A	25	20-JUL-22
<b>WG3748990-2</b>	<b>LCS</b>		98.6		%		70-130	20-JUL-22
Dissolved Organic Carbon								
<b>WG3748990-1</b>	<b>MB</b>		<0.50		mg/L		0.5	20-JUL-22
Dissolved Organic Carbon								
<b>EC-MISA-TB</b>		<b>Effluent</b>						
<b>Batch R5822697</b>								
<b>WG3747850-3</b>	<b>DUP</b>	<b>L2721274-3</b>						
Conductivity (EC)		403	389		uS/cm	3.5	10	15-JUL-22
<b>WG3747850-2</b>	<b>LCS</b>		103.4		%		90-110	15-JUL-22
Conductivity (EC)								
<b>WG3747850-1</b>	<b>MB</b>		0.4		uS/cm		2	15-JUL-22
Conductivity (EC)								
<b>HG-DIS-WT</b>		<b>Effluent</b>						
<b>Batch R5822166</b>								
<b>WG3748812-3</b>	<b>DUP</b>	<b>L2721273-1</b>						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	14-JUL-22
<b>WG3748812-2</b>	<b>LCS</b>		103.0		%		80-120	14-JUL-22
Mercury (Hg)-Dissolved								
<b>WG3748812-1</b>	<b>MB</b>		<0.000005		mg/L		0.000005	14-JUL-22
Mercury (Hg)-Dissolved								
<b>WG3748812-4</b>	<b>MS</b>	<b>L2721273-2</b>						
Mercury (Hg)-Dissolved			94.4		%		70-130	14-JUL-22
<b>Batch R5822171</b>								
<b>WG3748814-3</b>	<b>DUP</b>	<b>L2721276-13</b>						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	14-JUL-22
<b>WG3748814-2</b>	<b>LCS</b>		102.0		%		80-120	14-JUL-22
Mercury (Hg)-Dissolved								
<b>WG3748814-1</b>	<b>MB</b>						0.000005	



### Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Page 8 of 29

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
<b>HG-DIS-WT</b>		<b>Effluent</b>						
<b>Batch R5822171</b>								
<b>WG3748814-1 MB</b>								
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.000005	14-JUL-22
<b>WG3748814-4 MS</b>		<b>L2721276-14</b>						
Mercury (Hg)-Dissolved			95.3		%		70-130	14-JUL-22
<b>HG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch R5822115</b>								
<b>WG3748816-3 DUP</b>		<b>L2721273-1</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	14-JUL-22
<b>WG3748816-2 LCS</b>								
Mercury (Hg)-Total			101.0		%		80-120	14-JUL-22
<b>WG3748816-1 MB</b>								
Mercury (Hg)-Total			<0.000005		mg/L		0.000005	14-JUL-22
<b>WG3748816-4 MS</b>		<b>L2721273-2</b>						
Mercury (Hg)-Total			93.5		%		70-130	14-JUL-22
<b>Batch R5822165</b>								
<b>WG3748819-3 DUP</b>		<b>L2721276-13</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	14-JUL-22
<b>WG3748819-2 LCS</b>								
Mercury (Hg)-Total			104.0		%		80-120	14-JUL-22
<b>WG3748819-1 MB</b>								
Mercury (Hg)-Total			<0.000005		mg/L		0.000005	14-JUL-22
<b>WG3748819-4 MS</b>		<b>L2721276-14</b>						
Mercury (Hg)-Total			100.0		%		70-130	14-JUL-22
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch R5828021</b>								
<b>WG3750818-27 DUP</b>		<b>L2721276-1</b>						
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

Page 9 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5828021</b>							
<b>WG3750818-27 DUP</b>	<b>L2721276-1</b>							
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
<b>WG3750818-26 LCS</b>								
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

Page 10 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
<b>MET-D-MISA-TB</b>	<b>Effluent</b>							
<b>Batch</b>	<b>R5828021</b>							
<b>WG3750818-26 LCS</b>								
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

Page 11 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5828021</b>							
<b>WG3750818-26 LCS</b>								
	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
<b>WG3750818-30 LCS</b>								
	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

Page 12 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5828021</b>							
<b>WG3750818-30 LCS</b>								
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
<b>WG3750818-25 MB</b>								
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

Page 13 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5828021</b>							
<b>WG3750818-25 MB</b>								
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
<b>WG3750818-29 MB</b>								
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

Page 14 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
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5828021</b>							
<b>WG3750818-29 MB</b>								
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
<b>WG3750818-28 MS</b>		<b>L2721276-2</b>						
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

Page 15 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
------	--------	-----------	--------	-----------	-------	-----	-------	----------

**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

Page 16 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5828695</b>							
<b>WG3749979-3</b>	<b>DUP</b>	<b>L2721276-11</b>						
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

Page 17 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5828695</b>							
<b>WG3749979-3</b>	<b>DUP</b>	<b>L2721276-11</b>						
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
<b>WG3749979-2</b>	<b>LCS</b>							
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

Page 18 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5828695</b>							
<b>WG3749979-2</b>	<b>LCS</b>							
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
<b>WG3749979-6</b>	<b>LCS</b>							
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

Page 19 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5828695</b>							
<b>WG3749979-6</b>	<b>LCS</b>							
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
<b>WG3749979-1</b>	<b>MB</b>							
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

Page 20 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5828695</b>							
<b>WG3749979-1 MB</b>								
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
<b>WG3749979-5 MB</b>								
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

Page 21 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5828695</b>							
<b>WG3749979-5 MB</b>								
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
<b>WG3749979-4 MS</b>		<b>L2721276-12</b>						
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

Page 22 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5828695</b>							
<b>WG3749979-4 MS</b>		<b>L2721276-12</b>						
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

Page 23 of 29

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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5828695</b>							
<b>WG3749979-4</b>	<b>MS</b>	<b>L2721276-12</b>						
Zirconium (Zr)-Total			100.5		%		70-130	26-JUL-22
<b>NH3-MISA-F-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5824676</b>							
<b>WG3747809-2</b>	<b>LCS</b>							
Ammonia, Total (as N)			104.1		%		85-115	18-JUL-22
<b>WG3747809-1</b>	<b>MB</b>							
Ammonia, Total (as N)			0.004		mg/L		0.005	18-JUL-22
<b>WG3747809-4</b>	<b>MS</b>	<b>L2721274-2</b>						
Ammonia, Total (as N)			105.0		%		75-125	18-JUL-22
<b>Batch</b>	<b>R5826956</b>							
<b>WG3750678-2</b>	<b>LCS</b>							
Ammonia, Total (as N)			103.8		%		85-115	20-JUL-22
<b>WG3750678-1</b>	<b>MB</b>							
Ammonia, Total (as N)			<0.002		mg/L		0.005	20-JUL-22
<b>NO2-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5820796</b>							
<b>WG3747869-3</b>	<b>DUP</b>	<b>L2721276-7</b>						
Nitrite (as N)		0.003	0.003	RPD-NA	mg/L	N/A	20	11-JUL-22
<b>WG3747869-2</b>	<b>LCS</b>							
Nitrite (as N)			102.1		%		90-110	11-JUL-22
<b>WG3747870-2</b>	<b>LCS</b>							
Nitrite (as N)			101.1		%		90-110	11-JUL-22
<b>WG3747869-1</b>	<b>MB</b>							
Nitrite (as N)			<0.001		mg/L		0.01	11-JUL-22
<b>WG3747870-1</b>	<b>MB</b>							
Nitrite (as N)			<0.001		mg/L		0.01	11-JUL-22
<b>WG3747869-4</b>	<b>MS</b>	<b>L2721276-8</b>						
Nitrite (as N)			87.5		%		75-125	11-JUL-22
<b>NO3-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5820796</b>							
<b>WG3747869-3</b>	<b>DUP</b>	<b>L2721276-7</b>						
Nitrate (as N)		0.104	0.104		mg/L	0.5	20	11-JUL-22
<b>WG3747869-2</b>	<b>LCS</b>							
Nitrate (as N)			103.2		%		90-110	11-JUL-22
<b>WG3747870-2</b>	<b>LCS</b>							



### Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Page 24 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
<b>NO3-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5820796</b>							
<b>WG3747870-2</b>	<b>LCS</b>							
Nitrate (as N)			102.4		%		90-110	11-JUL-22
<b>WG3747869-1</b>	<b>MB</b>							
Nitrate (as N)			0.002		mg/L		0.02	11-JUL-22
<b>WG3747870-1</b>	<b>MB</b>							
Nitrate (as N)			0.002		mg/L		0.02	11-JUL-22
<b>WG3747869-4</b>	<b>MS</b>	<b>L2721276-8</b>						
Nitrate (as N)			100.4		%		75-125	11-JUL-22
<b>OGG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5821647</b>							
<b>WG3748704-2</b>	<b>LCS</b>							
Oil and Grease, Total			79.7		%		50-150	13-JUL-22
<b>WG3748704-1</b>	<b>MB</b>							
Oil and Grease, Total			0.6		mg/L		1	13-JUL-22
<b>Batch</b>	<b>R5821718</b>							
<b>WG3748724-2</b>	<b>LCS</b>							
Oil and Grease, Total			104.9		%		50-150	13-JUL-22
<b>WG3748724-1</b>	<b>MB</b>							
Oil and Grease, Total			0.6		mg/L		1	13-JUL-22
<b>Batch</b>	<b>R5822221</b>							
<b>WG3748930-2</b>	<b>LCS</b>							
Oil and Grease, Total			83.5		%		50-150	13-JUL-22
<b>WG3748930-1</b>	<b>MB</b>							
Oil and Grease, Total			<0.2		mg/L		1	13-JUL-22
<b>PH-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5822697</b>							
<b>WG3747850-3</b>	<b>DUP</b>	<b>L2721274-3</b>						
pH		8.20	8.21	J	pH	0.01	0.2	15-JUL-22
<b>WG3747850-2</b>	<b>LCS</b>							
pH			7.01		pH		6.9-7.1	15-JUL-22
<b>SO4-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5820796</b>							
<b>WG3747869-3</b>	<b>DUP</b>	<b>L2721276-7</b>						
Sulfate (SO4)		34.8	35.8		mg/L	2.8	20	11-JUL-22
<b>WG3747869-2</b>	<b>LCS</b>							
Sulfate (SO4)			103.8		%		90-110	11-JUL-22
<b>WG3747870-2</b>	<b>LCS</b>							



### Quality Control Report

Workorder: L2721276

Report Date: 23-AUG-22

Page 25 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
<b>SO4-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5820796</b>							
<b>WG3747870-2</b>	<b>LCS</b>							
Sulfate (SO4)			102.7		%		90-110	11-JUL-22
<b>WG3747869-1</b>	<b>MB</b>							
Sulfate (SO4)			0.10		mg/L		0.3	11-JUL-22
<b>WG3747870-1</b>	<b>MB</b>							
Sulfate (SO4)			0.05		mg/L		0.3	11-JUL-22
<b>WG3747869-4</b>	<b>MS</b>	<b>L2721276-8</b>						
Sulfate (SO4)			99.0		%		75-125	11-JUL-22
<b>TDS-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5820266</b>							
<b>WG3747837-2</b>	<b>LCS</b>							
Total Dissolved Solids			98.7		%		85-115	10-JUL-22
<b>WG3747837-1</b>	<b>MB</b>							
Total Dissolved Solids			<2		mg/L		10	10-JUL-22
<b>TSS-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5820203</b>							
<b>WG3747838-2</b>	<b>LCS</b>							
Total Suspended Solids			101.3		%		85-115	10-JUL-22
<b>WG3747838-1</b>	<b>MB</b>							
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

Page 26 of 29

## 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  
 Contact: Garnet Cornell

**Hold Time Exceedances:**

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Physical Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Leachable Anions &amp; Nutrients</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Inorganic Parameters</b>							
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
<b>Inorganic Parameters</b>							
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
<b>Metals</b>							
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
<b>Aggregate Organics</b>							
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

<b>Site ID</b> Rainy River	<b>Turnaround Time</b> 10 Business Days	Filtered	Preserve	Analysis	NG-SW-P-TB	RA226-MMER-8E																	
<b>Site Address</b> 1361 Roen Rd, Chapple, ON	<b>Lab Name</b> ALS Thunder Bay																						
<b>Project Number</b>	<b>Lab PM</b> Christine Paradis																						
<b>Project Name</b> Rainy River Mine	<b>Lab Phone/Fax</b>																						
<b>Project Manager</b> Amanda Jacobs	<b>Shipping Company</b>																						
<b>Project Manager Email Address</b> amanda.jacobs@newgold.com	<b>Airbill No.</b>																						
<b>Sampler</b>	<b>Shipping Date</b> 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 <sup>oC</sup>	
	SHIPPING METHOD: (mark as appropriate)		SAMPLER NAME AND SIGNATURE	Date Time

<b>Email Report To :</b> rainyriver.labresults@newgold.com	
<b>Email Invoice To :</b> rainyriver.accounts1@newgold.com	

01



W



L2721276-COFC

L2721276

### CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

COC No: ALS-447495601

Cooler No. of

<b>Site ID</b> Rainy River						<b>Turnaround Time</b> 10 Business Days				Filtered												
<b>Site Address</b> 1361 Roen Rd, Chapple, ON						<b>Lab Name</b> ALS Thunder Bay					Preserve											
<b>Project Number</b>						<b>Lab PM</b> Christine Paradis				Analysis		NG-SW-P-TB	RA226-MMER-BE									
<b>Project Name</b> Rainy River Mine						<b>Lab Phone/Fax</b>																
<b>Project Manager</b> Amanda Jacobs						<b>Shipping Company</b>																
<b>Project Manager Email Address</b> amanda.jacobs@newgold.com						<b>Airbill No.</b>																
<b>Sampler</b>						<b>Shipping Date</b> 07/07/2022																
Items No.	Sample ID	Sample Location	Matrix	G-Grab G-Comp	Depth	Sample Date Time	# of Containers	Comments Lab I.D.														
-9	8	SW06_SW_20220705	903	SW	G	07/05/2022 12:00	11		X													
-10	10	SW24_SW_20220705	Surface Water 24	SW	G	07/05/2022 12:30	12		X	X												
-11	11	SW03_SW_20220705	Surface Water 03	SW	G	07/05/2022 13:15	11	pH=7.26.	X													
-12	12	SW25_SW_20220705	Surface Water 25	SW	G	07/05/2022 14:00	11		X													
-13	13	SW26_SW_20220705	Surface Water 26	SW	G	07/05/2022 14:25	11	pH=7.76.	X													
-14	14	FB_SW_20220705	Field Blank	SW	G	07/06/2022 12:00	11		X													
-15	15	TB_SW_20220705	Travel Blank	SW	G	07/07/2022 12:00	11		X													

<b>Additional Comments/Special Instructions:</b>	<b>RELINQUISHED BY / AFFILIATION</b>	<b>Date Time</b>	<b>ACCEPTED BY / AFFILIATION</b>	<b>Date Time</b>
			AJ 07/09/22 9:30 8:22	
	<b>SHIPPING METHOD: (mark as appropriate)</b>		<b>SAMPLER NAME AND SIGNATURE</b>	<b>Date Time</b>
<b>Email Report To :</b>	rainyriver.labresults@newgold.com			
<b>Email Invoice To :</b>	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:

---

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							
<b>Field Tests</b>							
pH, Client Supplied	18.93		0.10	pH		17-AUG-22	R5844680
Temperature, Client Supplied	6.82		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.83		0.10	pH		17-AUG-22	R5844680
Temperature, Client Supplied	19.65		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.12		0.10	pH		17-AUG-22	R5844680
Temperature, Client Supplied	20.9		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.31		0.10	pH		17-AUG-22	R5844680
Temperature, Client Supplied	19.06		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Total Dissolved Solids	156		13	mg/L		17-AUG-22	R5845125
Turbidity	14.2		0.10	NTU		15-AUG-22	R5843007
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.71		0.10	pH		17-AUG-22	R5844680
Temperature, Client Supplied	17.93		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.12		0.10	pH		17-AUG-22	R5844680
Temperature, Client Supplied	21.29		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.11		0.10	pH		17-AUG-22	R5844680
Temperature, Client Supplied	18.92		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.22		0.10	pH		17-AUG-22	R5844680
Temperature, Client Supplied	19.05		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.61		0.10	pH		17-AUG-22	R5844680
Temperature, Client Supplied	21.66		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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							
<b>Organic / Inorganic Carbon</b>							
Total Organic Carbon	37.7		0.50	mg/L		19-AUG-22	R5846982
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
Zirconium (Zr)-Total	0.000598	<DL	0.0010	mg/L		22-AUG-22	R5848117
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.87		0.10	pH		17-AUG-22	R5844680
Temperature, Client Supplied	21.26		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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							
<b>Field Tests</b>							
Temperature, Client Supplied	21.82		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							

\* Refer 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							
<b>Field Tests</b>							
pH, Client Supplied	6.68		0.10	pH		17-AUG-22	R5844680
Temperature, Client Supplied	19.97		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.56		0.10	pH		17-AUG-22	R5844680
Temperature, Client Supplied	20.05		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.02		0.10	pH		17-AUG-22	R5844680
Temperature, Client Supplied	22.69		0	Degree C		17-AUG-22	R5844680
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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							
<b>Organic / Inorganic Carbon</b>							
Total Organic Carbon	<0.50		0.50	mg/L		23-AUG-22	R5848174
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
Zirconium (Zr)-Total	<0.000002	<W	0.0010	mg/L		23-AUG-22	R5848238
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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 <sub>3</sub> )	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 <sub>3</sub> )	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 <sub>3</sub> )	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
<b>BOD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5845059</b>							
<b>WG3756872-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			93.8		%		85-115	13-AUG-22
<b>WG3756872-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	13-AUG-22
<b>Batch</b>	<b>R5846171</b>							
<b>WG3756974-3</b>	<b>DUP</b>	<b>L2727995-2</b>						
Biochemical Oxygen Demand		5.4	5.1		mg/L	5.7	30	14-AUG-22
<b>WG3756974-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			100.3		%		85-115	14-AUG-22
<b>WG3756974-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	14-AUG-22
<b>CL-L-IC-N-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5843767</b>							
<b>WG3756980-3</b>	<b>DUP</b>	<b>L2728012-11</b>						
Chloride (Cl)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	15-AUG-22
<b>WG3756981-3</b>	<b>DUP</b>	<b>L2728067-9</b>						
Chloride (Cl)		0.23	0.24		mg/L	4.9	20	15-AUG-22
<b>WG3756980-2</b>	<b>LCS</b>							
Chloride (Cl)			104.4		%		90-110	15-AUG-22
<b>WG3756981-2</b>	<b>LCS</b>							
Chloride (Cl)			103.8		%		90-110	15-AUG-22
<b>WG3756980-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	15-AUG-22
<b>WG3756981-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	15-AUG-22
<b>WG3756980-4</b>	<b>MS</b>	<b>L2728012-12</b>						
Chloride (Cl)			100.0		%		75-125	15-AUG-22
<b>WG3756981-4</b>	<b>MS</b>	<b>L2728067-10</b>						
Chloride (Cl)			101.9		%		75-125	15-AUG-22
<b>Batch</b>	<b>R5844808</b>							
<b>WG3757554-3</b>	<b>DUP</b>	<b>L2728189-5</b>						
Chloride (Cl)		0.47	0.50		mg/L	6.0	20	17-AUG-22
<b>WG3757554-2</b>	<b>LCS</b>							
Chloride (Cl)			104.6		%		90-110	17-AUG-22
<b>WG3757554-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	17-AUG-22
<b>WG3757554-4</b>	<b>MS</b>	<b>L2728189-6</b>						
Chloride (Cl)			105.3		%		75-125	17-AUG-22





## Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-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
<b>COD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5845312</b>							
<b>WG3756919-3</b>	<b>DUP</b>	<b>L2728012-21</b>						
Chemical Oxygen Demand		92	95		mg/L	3.1	20	18-AUG-22
<b>WG3756919-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			103.4		%		85-115	18-AUG-22
<b>WG3756919-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	18-AUG-22
<b>WG3756919-4</b>	<b>MS</b>	<b>L2728012-22</b>						
Chemical Oxygen Demand			110.4		%		75-125	18-AUG-22
<b>Batch</b>	<b>R5846198</b>							
<b>WG3756918-3</b>	<b>DUP</b>	<b>L2727995-1</b>						
Chemical Oxygen Demand		17	27	J	mg/L	10	20	19-AUG-22
<b>WG3756918-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			112.0		%		85-115	19-AUG-22
<b>WG3756918-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	19-AUG-22
<b>WG3756918-4</b>	<b>MS</b>	<b>L2727995-2</b>						
Chemical Oxygen Demand			103.2		%		75-125	19-AUG-22
<b>COLOUR-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5843356</b>							
<b>WG3756972-3</b>	<b>DUP</b>	<b>L2728192-4</b>						
Color, True		6.4	6.9		CU	6.5	20	15-AUG-22
<b>WG3756972-2</b>	<b>LCS</b>							
Color, True			99.8		%		85-115	15-AUG-22
<b>WG3756972-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	15-AUG-22
<b>Batch</b>	<b>R5843417</b>							
<b>WG3756970-3</b>	<b>DUP</b>	<b>L2728012-20</b>						
Color, True		123	123		CU	0.0	20	16-AUG-22
<b>WG3756970-2</b>	<b>LCS</b>							
Color, True			99.8		%		85-115	16-AUG-22
<b>WG3756970-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	16-AUG-22
<b>F-IC-N-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5843767</b>							
<b>WG3756980-3</b>	<b>DUP</b>	<b>L2728012-11</b>						
Fluoride (F)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	15-AUG-22
<b>WG3756981-3</b>	<b>DUP</b>	<b>L2728067-9</b>						



### Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-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
<b>F-IC-N-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5843767</b>							
<b>WG3756981-3</b>	<b>DUP</b>	<b>L2728067-9</b>						
Fluoride (F)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	15-AUG-22
<b>WG3756980-2</b>	<b>LCS</b>							
Fluoride (F)			104.4		%		90-110	15-AUG-22
<b>WG3756981-2</b>	<b>LCS</b>							
Fluoride (F)			109.2		%		90-110	15-AUG-22
<b>WG3756980-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	15-AUG-22
<b>WG3756981-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	15-AUG-22
<b>WG3756981-4</b>	<b>MS</b>	<b>L2728067-10</b>						
Fluoride (F)			105.7		%		75-125	15-AUG-22
<b>PO4-DO-COL-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5843603</b>							
<b>WG3756976-3</b>	<b>DUP</b>	<b>L2728012-19</b>						
Orthophosphate-Dissolved (as P)		0.0328	0.0360		mg/L	9.2	20	16-AUG-22
<b>WG3756977-3</b>	<b>DUP</b>	<b>L2728190-4</b>						
Orthophosphate-Dissolved (as P)		0.322	0.320		mg/L	0.5	20	16-AUG-22
<b>WG3756976-2</b>	<b>LCS</b>							
Orthophosphate-Dissolved (as P)			101.3		%		80-120	16-AUG-22
<b>WG3756977-2</b>	<b>LCS</b>							
Orthophosphate-Dissolved (as P)			101.2		%		80-120	16-AUG-22
<b>WG3756976-1</b>	<b>MB</b>							
Orthophosphate-Dissolved (as P)			<0.0010		mg/L		0.001	16-AUG-22
<b>WG3756977-1</b>	<b>MB</b>							
Orthophosphate-Dissolved (as P)			<0.0010		mg/L		0.001	16-AUG-22
<b>WG3756976-4</b>	<b>MS</b>	<b>L2728012-20</b>						
Orthophosphate-Dissolved (as P)			85.5		%		70-130	16-AUG-22
<b>WG3756977-4</b>	<b>MS</b>	<b>L2728190-5</b>						
Orthophosphate-Dissolved (as P)			N/A	MS-B	%		-	16-AUG-22
<b>TKN-F-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5845784</b>							
<b>WG3756912-3</b>	<b>DUP</b>	<b>L2728012-21</b>						
Total Kjeldahl Nitrogen		1.29	1.27		mg/L	1.9	20	18-AUG-22
<b>WG3756912-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			104.3		%		75-125	18-AUG-22
<b>WG3756912-1</b>	<b>MB</b>							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	18-AUG-22



## Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Page 4 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
<b>TKN-F-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5845784</b>							
<b>WG3756912-4 MS</b>		<b>L2728012-22</b>						
Total Kjeldahl Nitrogen			124.0		%		70-130	18-AUG-22
<b>Batch</b>	<b>R5848503</b>							
<b>WG3757901-3 DUP</b>		<b>L2727776-1</b>						
Total Kjeldahl Nitrogen		0.422	0.420		mg/L	0.3	20	23-AUG-22
<b>WG3757902-3 DUP</b>		<b>L2728012-9</b>						
Total Kjeldahl Nitrogen		0.998	0.944		mg/L	5.6	20	23-AUG-22
<b>WG3757901-2 LCS</b>								
Total Kjeldahl Nitrogen			102.1		%		75-125	23-AUG-22
<b>WG3757902-2 LCS</b>								
Total Kjeldahl Nitrogen			96.5		%		75-125	23-AUG-22
<b>WG3757901-1 MB</b>								
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	23-AUG-22
<b>WG3757902-1 MB</b>								
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	23-AUG-22
<b>WG3757901-4 MS</b>		<b>L2727776-2</b>						
Total Kjeldahl Nitrogen			108.1		%		70-130	23-AUG-22
<b>WG3757902-4 MS</b>		<b>L2728012-10</b>						
Total Kjeldahl Nitrogen			127.4		%		70-130	23-AUG-22
<b>TOC-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5845801</b>							
<b>WG3757852-3 DUP</b>		<b>L2728012-6</b>						
Total Organic Carbon		43.1	43.5		mg/L	0.8	20	18-AUG-22
<b>WG3757852-2 LCS</b>								
Total Organic Carbon			108.1		%		80-120	18-AUG-22
<b>WG3757852-1 MB</b>								
Total Organic Carbon			<0.50		mg/L		0.5	18-AUG-22
<b>WG3757852-4 MS</b>		<b>L2728012-6</b>						
Total Organic Carbon			N/A	MS-B	%		-	18-AUG-22
<b>Batch</b>	<b>R5846982</b>							
<b>WG3758161-3 DUP</b>		<b>L2727952-6</b>						
Total Organic Carbon		3.60	3.90		mg/L	8.0	20	19-AUG-22
<b>WG3758161-2 LCS</b>								
Total Organic Carbon			89.7		%		80-120	19-AUG-22
<b>WG3758161-1 MB</b>								
Total Organic Carbon			<0.50		mg/L		0.5	19-AUG-22
<b>WG3758161-4 MS</b>		<b>L2727952-6</b>						



### Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Page 5 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
<b>TOC-WT</b>		<b>Water</b>						
Batch	R5846982							
WG3758161-4	MS	L2727952-6						
Total Organic Carbon			109.5		%		70-130	19-AUG-22
Batch	R5848174							
WG3758396-3	DUP	L2728191-10						
Total Organic Carbon		13.2	13.5		mg/L	2.0	20	23-AUG-22
WG3758396-2	LCS							
Total Organic Carbon			97.5		%		80-120	23-AUG-22
WG3758396-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	23-AUG-22
WG3758396-4	MS	L2728191-10						
Total Organic Carbon			N/A	MS-B	%		-	23-AUG-22
<b>TURBIDITY-TB</b>		<b>Water</b>						
Batch	R5843007							
WG3757043-3	DUP	L2728012-18						
Turbidity		1.61	1.62		NTU	0.6	15	15-AUG-22
WG3757043-6	DUP	L2728191-15						
Turbidity		4.05	4.03		NTU	0.5	15	15-AUG-22
WG3757043-2	LCS							
Turbidity			99.0		%		85-115	15-AUG-22
WG3757043-5	LCS							
Turbidity			99.0		%		85-115	15-AUG-22
WG3757043-1	MB							
Turbidity			<0.10		NTU		0.1	15-AUG-22
WG3757043-4	MB							
Turbidity			<0.10		NTU		0.1	15-AUG-22
<b>ACY-MISA-TB</b>		<b>Effluent</b>						
Batch	R5843276							
WG3756963-3	DUP	L2727953-19						
Acidity (as CaCO3)		<0.2	<0.2	RPD-NA	mg/L	N/A	20	15-AUG-22
WG3756964-3	DUP	L2728012-4						
Acidity (as CaCO3)		1.2	0.6	RPD-NA	mg/L	N/A	20	15-AUG-22
WG3756963-2	LCS							
Acidity (as CaCO3)			92.6		%		85-115	15-AUG-22
WG3756964-2	LCS							
Acidity (as CaCO3)			107.4		%		85-115	15-AUG-22
WG3756963-1	MB							
Acidity (as CaCO3)			2.0		mg/L		3	15-AUG-22



### Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Page 6 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
<b>ACY-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5843276</b>							
<b>WG3756964-1</b>	<b>MB</b>							
Acidity (as CaCO3)			2.0		mg/L		3	15-AUG-22
<b>ALK-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5842741</b>							
<b>WG3756926-3</b>	<b>DUP</b>	<b>L2728012-8</b>						
Alkalinity, Total (as CaCO3)		121	121		mg/L	0.3	20	13-AUG-22
Alkalinity, Phenolphthalein		<0.2	<0.2	RPD-NA	mg/L	N/A	25	13-AUG-22
<b>WG3756923-2</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			99.1		%		85-115	13-AUG-22
<b>WG3756926-2</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			98.8		%		85-115	13-AUG-22
<b>WG3756932-2</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			98.2		%		85-115	13-AUG-22
<b>WG3756923-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			0.4		mg/L		2	13-AUG-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	13-AUG-22
<b>WG3756926-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	13-AUG-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	13-AUG-22
<b>WG3756932-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			0.2		mg/L		2	13-AUG-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	13-AUG-22
<b>CN-FREE-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5845043</b>							
<b>WG3757808-3</b>	<b>DUP</b>	<b>L2728067-1</b>						
Cyanide, Free		0.0006	0.0001	RPD-NA	mg/L	N/A	20	17-AUG-22
COMMENTS: PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis								
<b>WG3757808-7</b>	<b>DUP</b>	<b>L2728012-9</b>						
Cyanide, Free		<0.0001	0.0001	RPD-NA	mg/L	N/A	20	17-AUG-22
COMMENTS: PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis								
<b>WG3757808-2</b>	<b>LCS</b>							
Cyanide, Free			101.7		%		80-120	17-AUG-22
COMMENTS: PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis								
<b>WG3757808-6</b>	<b>LCS</b>							
Cyanide, Free			100.9		%		80-120	17-AUG-22
COMMENTS: PEHT Parameter Exceeded Recommended Holding Time Prior to Analysis								
<b>WG3757808-1</b>	<b>MB</b>							





## Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Page 8 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
<b>CN-WAD-MISA-CFA-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5845043</b>							
<b>WG3757808-6</b>	<b>LCS</b>							
	Cyanide, Weak Acid Diss		101.7		%		80-120	17-AUG-22
<b>WG3757808-1</b>	<b>MB</b>							
	Cyanide, Weak Acid Diss		<0.0001		mg/L		0.002	17-AUG-22
<b>WG3757808-5</b>	<b>MB</b>							
	Cyanide, Weak Acid Diss		<0.0001		mg/L		0.002	17-AUG-22
<b>WG3757808-4</b>	<b>MS</b>	<b>L2728067-1</b>						
	Cyanide, Weak Acid Diss		104.4		%		75-125	17-AUG-22
<b>WG3757808-8</b>	<b>MS</b>	<b>L2728012-9</b>						
	Cyanide, Weak Acid Diss		101.1		%		75-125	17-AUG-22
<b>DOC-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5848176</b>							
<b>WG3757786-3</b>	<b>DUP</b>	<b>L2728003-12</b>						
	Dissolved Organic Carbon	18.2	19.1		mg/L	4.5	25	23-AUG-22
<b>WG3757786-2</b>	<b>LCS</b>							
	Dissolved Organic Carbon		94.9		%		70-130	23-AUG-22
<b>WG3757786-1</b>	<b>MB</b>							
	Dissolved Organic Carbon		<0.50		mg/L		0.5	23-AUG-22
<b>EC-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5842741</b>							
<b>WG3756923-3</b>	<b>DUP</b>	<b>L2727953-21</b>						
	Conductivity (EC)	366	361		uS/cm	1.4	10	13-AUG-22
<b>WG3756926-3</b>	<b>DUP</b>	<b>L2728012-8</b>						
	Conductivity (EC)	252	250		uS/cm	0.8	10	13-AUG-22
<b>WG3756932-3</b>	<b>DUP</b>	<b>L2727953-35</b>						
	Conductivity (EC)	0.2	0.2	RPD-NA	uS/cm	N/A	10	13-AUG-22
<b>WG3756923-2</b>	<b>LCS</b>							
	Conductivity (EC)		96.0		%		90-110	13-AUG-22
<b>WG3756926-2</b>	<b>LCS</b>							
	Conductivity (EC)		97.1		%		90-110	13-AUG-22
<b>WG3756932-2</b>	<b>LCS</b>							
	Conductivity (EC)		97.3		%		90-110	13-AUG-22
<b>WG3756923-1</b>	<b>MB</b>							
	Conductivity (EC)		<0.2		uS/cm		2	13-AUG-22
<b>WG3756926-1</b>	<b>MB</b>							
	Conductivity (EC)		<0.2		uS/cm		2	13-AUG-22
<b>WG3756932-1</b>	<b>MB</b>							
	Conductivity (EC)		<0.2		uS/cm		2	13-AUG-22



### Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Page 9 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
<b>EC-MISA-TB</b>		<b>Effluent</b>						
<b>Batch R5846120</b>								
<b>WG3758345-2</b>	<b>LCS</b>							
Conductivity (EC)			98.2		%		90-110	15-AUG-22
<b>WG3758345-1</b>	<b>MB</b>							
Conductivity (EC)			<0.2		uS/cm		2	15-AUG-22
<b>HG-DIS-WT</b>		<b>Effluent</b>						
<b>Batch R5845315</b>								
<b>WG3757914-3</b>	<b>DUP</b>	<b>L2728003-9</b>						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-AUG-22
<b>WG3757914-2</b>	<b>LCS</b>							
Mercury (Hg)-Dissolved			92.7		%		80-120	18-AUG-22
<b>WG3757914-1</b>	<b>MB</b>							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.000005	18-AUG-22
<b>WG3757914-4</b>	<b>MS</b>	<b>L2728003-12</b>						
Mercury (Hg)-Dissolved			102.7		%		70-130	18-AUG-22
<b>Batch R5845316</b>								
<b>WG3757919-3</b>	<b>DUP</b>	<b>L2728012-16</b>						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	18-AUG-22
<b>WG3757919-2</b>	<b>LCS</b>							
Mercury (Hg)-Dissolved			93.9		%		80-120	18-AUG-22
<b>WG3757919-1</b>	<b>MB</b>							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.000005	18-AUG-22
<b>WG3757919-4</b>	<b>MS</b>	<b>L2728012-18</b>						
Mercury (Hg)-Dissolved			85.7		%		70-130	18-AUG-22
<b>HG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch R5844686</b>								
<b>WG3757757-3</b>	<b>DUP</b>	<b>L2728003-9</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	17-AUG-22
<b>WG3757757-2</b>	<b>LCS</b>							
Mercury (Hg)-Total			105.0		%		80-120	17-AUG-22
<b>WG3757757-1</b>	<b>MB</b>							
Mercury (Hg)-Total			<0.000005		mg/L		0.000005	17-AUG-22
<b>WG3757757-4</b>	<b>MS</b>	<b>L2728003-12</b>						
Mercury (Hg)-Total			102.1		%		70-130	17-AUG-22
<b>Batch R5844687</b>								
<b>WG3757760-3</b>	<b>DUP</b>	<b>L2728012-18</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	17-AUG-22
<b>WG3757760-2</b>	<b>LCS</b>							





## Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Page 10 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
<b>HG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch R5844687</b>								
<b>WG3757760-2</b>	<b>LCS</b>							
Mercury (Hg)-Total			104.0		%		80-120	17-AUG-22
<b>WG3757760-1</b>	<b>MB</b>							
Mercury (Hg)-Total			<0.000005		mg/L		0.000005	17-AUG-22
<b>WG3757760-4</b>	<b>MS</b>	<b>L2728012-19</b>						
Mercury (Hg)-Total			96.3		%		70-130	17-AUG-22
<b>Batch R5847096</b>								
<b>WG3758664-3</b>	<b>DUP</b>	<b>L2728012-8</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	22-AUG-22
<b>WG3758664-2</b>	<b>LCS</b>							
Mercury (Hg)-Total			99.8		%		80-120	22-AUG-22
<b>WG3758664-1</b>	<b>MB</b>							
Mercury (Hg)-Total			<0.000005		mg/L		0.000005	22-AUG-22
<b>WG3758664-4</b>	<b>MS</b>	<b>L2728067-3</b>						
Mercury (Hg)-Total			98.0		%		70-130	22-AUG-22
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch R5848532</b>								
<b>WG3759158-11</b>	<b>DUP</b>	<b>L2728067-1</b>						
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

Workorder: L2728012

Report Date: 14-SEP-22

Page 11 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
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5848532</b>							
<b>WG3759158-11</b>	<b>DUP</b>	<b>L2728067-1</b>						
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
<b>WG3759158-10</b>	<b>LCS</b>							
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

Page 12 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5848532</b>							
<b>WG3759158-10 LCS</b>								
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
<b>WG3759158-9 MB</b>								
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

Page 13 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
<b>MET-D-MISA-TB</b>	<b>Effluent</b>							
<b>Batch</b>	<b>R5848532</b>							
<b>WG3759158-9 MB</b>								
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

Page 14 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
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5848532</b>							
<b>WG3759158-9</b>	<b>MB</b>							
Zinc (Zn)-Dissolved			<0.0002		mg/L		0.003	24-AUG-22
Zirconium (Zr)-Dissolved			<0.000002		mg/L		0.001	24-AUG-22
<b>WG3759158-12</b>	<b>MS</b>	<b>L2728067-2</b>						
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

Page 15 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5848532</b>							
<b>WG3759158-12 MS</b>		<b>L2728067-2</b>						
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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5848117</b>							
<b>WG3756953-11 DUP</b>		<b>L2728012-12</b>						
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

Page 16 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5848117</b>							
<b>WG3756953-11</b>	<b>DUP</b>	<b>L2728012-12</b>						
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
<b>WG3756953-10</b>	<b>LCS</b>							
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

Page 17 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5848117</b>							
<b>WG3756953-10 LCS</b>								
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
<b>WG3756953-9 MB</b>								
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

Page 18 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5848117</b>							
<b>WG3756953-9 MB</b>								
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
<b>WG3756953-12 MS</b>		<b>L2728012-14</b>						
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

Page 19 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5848117</b>							
<b>WG3756953-12 MS</b>		<b>L2728012-14</b>						
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

Page 20 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5848117</b>							
<b>WG3756953-12 MS</b>		<b>L2728012-14</b>						
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
<b>Batch</b>	<b>R5848238</b>							
<b>WG3757037-2 LCS</b>								
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

Page 21 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5848238</b>							
<b>WG3757037-2 LCS</b>								
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
<b>WG3757037-1 MB</b>								
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

Page 22 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5848238</b>							
<b>WG3757037-1 MB</b>								
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
<b>NH3-MISA-F-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5848081</b>							
<b>WG3756910-3 DUP</b>		<b>L2728012-21</b>						
Ammonia, Total (as N)		0.028	0.028		mg/L	3.9	20	17-AUG-22
<b>WG3756908-2 LCS</b>								
Ammonia, Total (as N)			98.8		%		85-115	17-AUG-22
<b>WG3756910-2 LCS</b>								
Ammonia, Total (as N)			99.1		%		85-115	17-AUG-22
<b>WG3756908-1 MB</b>								
Ammonia, Total (as N)			0.002		mg/L		0.005	17-AUG-22
<b>WG3756910-1 MB</b>								
Ammonia, Total (as N)			0.002		mg/L		0.005	17-AUG-22
<b>WG3756908-4 MS</b>		<b>L2727995-2</b>						
Ammonia, Total (as N)			75.8		%		75-125	17-AUG-22
<b>WG3756910-4 MS</b>		<b>L2728012-22</b>						
Ammonia, Total (as N)			94.1		%		75-125	17-AUG-22
<b>NO2-MISA-IC-TB</b>								
	<b>Effluent</b>							



## Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Page 23 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
<b>NO2-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5843767</b>							
<b>WG3756980-3</b>	<b>DUP</b>	<b>L2728012-11</b>						
Nitrite (as N)		<0.001	<0.001	RPD-NA	mg/L	N/A	20	15-AUG-22
<b>WG3756981-3</b>	<b>DUP</b>	<b>L2728067-9</b>						
Nitrite (as N)		0.087	0.086		mg/L	1.4	20	15-AUG-22
<b>WG3756980-2</b>	<b>LCS</b>							
Nitrite (as N)			94.7		%		90-110	15-AUG-22
<b>WG3756981-2</b>	<b>LCS</b>							
Nitrite (as N)			94.5		%		90-110	15-AUG-22
<b>WG3756980-1</b>	<b>MB</b>							
Nitrite (as N)			<0.001		mg/L		0.01	15-AUG-22
<b>WG3756981-1</b>	<b>MB</b>							
Nitrite (as N)			<0.001		mg/L		0.01	15-AUG-22
<b>WG3756980-4</b>	<b>MS</b>	<b>L2728012-12</b>						
Nitrite (as N)			89.3		%		75-125	15-AUG-22
<b>WG3756981-4</b>	<b>MS</b>	<b>L2728067-10</b>						
Nitrite (as N)			103.3		%		75-125	15-AUG-22
<b>NO3-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5843767</b>							
<b>WG3756980-3</b>	<b>DUP</b>	<b>L2728012-11</b>						
Nitrate (as N)		0.004	<0.002	RPD-NA	mg/L	N/A	20	15-AUG-22
<b>WG3756981-3</b>	<b>DUP</b>	<b>L2728067-9</b>						
Nitrate (as N)		0.730	0.722		mg/L	1.2	20	15-AUG-22
<b>WG3756980-2</b>	<b>LCS</b>							
Nitrate (as N)			102.8		%		90-110	15-AUG-22
<b>WG3756981-2</b>	<b>LCS</b>							
Nitrate (as N)			103.5		%		90-110	15-AUG-22
<b>WG3756980-1</b>	<b>MB</b>							
Nitrate (as N)			<0.002		mg/L		0.02	15-AUG-22
<b>WG3756981-1</b>	<b>MB</b>							
Nitrate (as N)			<0.002		mg/L		0.02	15-AUG-22
<b>WG3756980-4</b>	<b>MS</b>	<b>L2728012-12</b>						
Nitrate (as N)			101.1		%		75-125	15-AUG-22
<b>WG3756981-4</b>	<b>MS</b>	<b>L2728067-10</b>						
Nitrate (as N)			105.4		%		75-125	15-AUG-22

**OGG-TOT-WT**                      **Effluent**



### Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Page 24 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
<b>OGG-TOT-WT</b>		<b>Effluent</b>						
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
<b>PH-MISA-TB</b>		<b>Effluent</b>						
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
<b>SO4-MISA-IC-TB</b>		<b>Effluent</b>						
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

Page 25 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
<b>SO4-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5844808</b>							
<b>WG3757554-2</b>	<b>LCS</b>							
Sulfate (SO4)			105.9		%		90-110	17-AUG-22
<b>WG3757554-1</b>	<b>MB</b>							
Sulfate (SO4)			<0.05		mg/L		0.3	17-AUG-22
<b>TDS-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5844296</b>							
<b>WG3757274-3</b>	<b>DUP</b>	<b>L2728012-19</b>						
Total Dissolved Solids		232	226		mg/L	2.0	20	16-AUG-22
<b>WG3757274-2</b>	<b>LCS</b>							
Total Dissolved Solids			96.0		%		85-115	16-AUG-22
<b>WG3757274-1</b>	<b>MB</b>							
Total Dissolved Solids			<2		mg/L		10	16-AUG-22
<b>Batch</b>	<b>R5844577</b>							
<b>WG3757265-3</b>	<b>DUP</b>	<b>L2728012-11</b>						
Total Dissolved Solids		6	6	RPD-NA	mg/L	N/A	20	16-AUG-22
<b>WG3757265-2</b>	<b>LCS</b>							
Total Dissolved Solids			94.5		%		85-115	16-AUG-22
<b>WG3757265-1</b>	<b>MB</b>							
Total Dissolved Solids			<2		mg/L		10	16-AUG-22
<b>Batch</b>	<b>R5845125</b>							
<b>WG3757030-2</b>	<b>LCS</b>							
Total Dissolved Solids			99.5		%		85-115	17-AUG-22
<b>WG3757030-1</b>	<b>MB</b>							
Total Dissolved Solids			2		mg/L		10	17-AUG-22
<b>Batch</b>	<b>R5845860</b>							
<b>WG3757879-2</b>	<b>LCS</b>							
Total Dissolved Solids			95.5		%		85-115	18-AUG-22
<b>WG3757879-1</b>	<b>MB</b>							
Total Dissolved Solids			4		mg/L		10	18-AUG-22
<b>TSS-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5844262</b>							
<b>WG3757271-3</b>	<b>DUP</b>	<b>L2728012-19</b>						
Total Suspended Solids		5.0	6.0	J	mg/L	1.2	6	16-AUG-22
<b>WG3757271-2</b>	<b>LCS</b>							
Total Suspended Solids			101.7		%		85-115	16-AUG-22
<b>WG3757271-1</b>	<b>MB</b>							
Total Suspended Solids			0.5		mg/L		3	16-AUG-22





### Quality Control Report

Workorder: L2728012

Report Date: 14-SEP-22

Page 26 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
<b>TSS-MISA-TB</b>								
<b>Batch R5844520</b>								
<b>WG3757267-3</b>	<b>DUP</b>	<b>L2728012-11</b>						
Total Suspended Solids		<0.5	<0.5	RPD-NA	mg/L	N/A	20	16-AUG-22
<b>WG3757267-2</b>	<b>LCS</b>							
Total Suspended Solids			89.7		%		85-115	16-AUG-22
<b>WG3757267-1</b>	<b>MB</b>							
Total Suspended Solids			<0.5		mg/L		3	16-AUG-22
<b>Batch R5845284</b>								
<b>WG3757029-2</b>	<b>LCS</b>							
Total Suspended Solids			101.7		%		85-115	17-AUG-22
<b>WG3757029-1</b>	<b>MB</b>							
Total Suspended Solids			<0.5		mg/L		3	17-AUG-22
<b>Batch R5845819</b>								
<b>WG3757882-2</b>	<b>LCS</b>							
Total Suspended Solids			85.5		%		85-115	18-AUG-22
<b>WG3757882-1</b>	<b>MB</b>							
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

Page 27 of 30

## 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
<b>Physical Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Leachable Anions &amp; Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
Dissolved Organic Carbon for MISA							
	11	09-AUG-22 12:00	17-AUG-22 00:00	3	8	days	EHTL
<b>Aggregate Organics</b>							
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

Page 30 of 30

---

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

<b>Analyses</b>	<b>Quantity</b>	<b>Date Extracted</b>	<b>Date Analyzed</b>	<b>Laboratory Method</b>	<b>Analytical Method</b>
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.

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.



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).



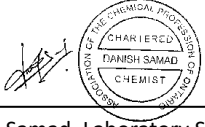
BUREAU  
VERITAS

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:



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	11.8	8/11/2022 7:24:00 AM	Method of Shipment: Courier			
Received by	KC17	8/12/22	9:40	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



10708010 0000

CHAIN OF CUSTODY RECORD - ALS-447843086

L2728012

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 8/11/2022 7:24:00 AM <b>COC Number:</b> ALS-447843086						<b>Containers</b>  <b>Filtered</b>  <b>Preservatives</b>		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 <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>KCF</i>		<i>8/12/22 9:40</i>							



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		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					
				Shipped: Air/Ground					
				Lab Name: ALS Thunder Bay					
				Lab Phone:					





Lv



12728012 COC

L2728012

CHAIN OF CUSTODY RECORD - ALS-447843086

<b>Drinking Water (DW) Samples (client use)</b>
Are samples taken from a Regulated DW System? Yes X No
Are samples for human consumption / use? Yes X 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		
Received by		On Ice: yes / no		
		Shipped: Air/Ground		Email invoice to: rainyriver.accounts1@newgold.com
		Lab Name: ALS Thunder Bay		Email Report to: rainyriver.labresults@newgold.com
		Lab Phone:		



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:

---

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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.74		0.10	pH		11-SEP-22	R5857698
Temperature, Client Supplied	18.04		0	Degree C		11-SEP-22	R5857698
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000487		0.000020	ug/L	06-OCT-22	13-OCT-22	R5873836
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							

\* Refer 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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							

\* Refer 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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							

\* Refer 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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Turbidity	8.18		0.10	NTU		10-SEP-22	R5857650
<b>Anions and Nutrients</b>							
Alkalinity, Total (as CaCO3)	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 (SO4)	2.05	<T	0.30	mg/L		11-SEP-22	R5858816
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							

\* Refer 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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000873		0.000020	ug/L	06-OCT-22	13-OCT-22	R5873836
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							

\* Refer 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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Radiological Parameters</b>							
L2732174-12 SW24_SW_20220906 Sampled By: Client on 06-SEP-22 @ 13:15 Matrix: SW							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000430		0.000020	ug/L	06-OCT-22	13-OCT-22	R5873836
<b>Aggregate Organics</b>							
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 <b>Aggregate Organics</b> 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 <b>Field Tests</b> Dissolved Oxygen, Client Supplied pH, Client Supplied Temperature, Client Supplied <b>Radiological Parameters</b> 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 <b>Field Tests</b> Dissolved Oxygen, Client Supplied pH, Client Supplied Temperature, Client Supplied <b>Physical Tests</b> Color, True Conductivity Hardness (as CaCO3) pH Total Suspended Solids Total Dissolved Solids Turbidity <b>Anions and Nutrients</b> 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) <b>Cyanides</b> Cyanide, Weak Acid Diss Cyanide, Total Cyanide, Free <b>Organic / Inorganic Carbon</b>	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 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 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							
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000676		0.000020	ug/L	06-OCT-22	13-OCT-22	R5873836
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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							
<b>Organic / Inorganic Carbon</b>							
Total Organic Carbon	26.2	DLM	2.5	mg/L		26-SEP-22	R5866434
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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							
<b>Organic / Inorganic Carbon Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							

\* Refer 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							
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
Zirconium (Zr)-Total	0.000390	<DL	0.0010	mg/L		22-SEP-22	R5866108
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000451		0.000020	ug/L	06-OCT-22	13-OCT-22	R5873836
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
Sulfate (SO4)	1.05	<T	0.30	mg/L		11-SEP-22	R5858816
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							

\* Refer 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							
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Inorganic Parameters</b>							
Acidity (as CaCO3)	<2.0		2.0	mg/L		16-SEP-22	R5861998
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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 &amp; 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 <sub>3</sub> )	APHA 2310 B - Potentiometric Titration
ALK-WT	Water	Alkalinity, Total (as CaCO <sub>3</sub> )	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 <sub>3</sub> )	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

Page 1 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>ACIDITY-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5861998</b>							
<b>WG3763239-3</b>	<b>DUP</b>	<b>L2732174-3</b>						
Acidity (as CaCO3)		<2.0	<2.0	RPD-NA	mg/L	N/A	20	16-SEP-22
<b>WG3763239-2</b>	<b>LCS</b>							
Acidity (as CaCO3)			110.3		%		85-115	16-SEP-22
<b>WG3763239-1</b>	<b>MB</b>							
Acidity (as CaCO3)			<2.0		mg/L		3	16-SEP-22
<b>ALK-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5862360</b>							
<b>WG3763344-4</b>	<b>DUP</b>	<b>WG3763344-3</b>						
Alkalinity, Total (as CaCO3)		189	189		mg/L	0.0	20	16-SEP-22
<b>WG3763344-2</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			101.0		%		85-115	16-SEP-22
<b>WG3763344-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	16-SEP-22
<b>Batch</b>	<b>R5862361</b>							
<b>WG3763345-4</b>	<b>DUP</b>	<b>WG3763345-3</b>						
Alkalinity, Total (as CaCO3)		62.4	62.4		mg/L	0.0	20	16-SEP-22
<b>WG3763345-2</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			100.7		%		85-115	16-SEP-22
<b>WG3763345-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	16-SEP-22
<b>Batch</b>	<b>R5862436</b>							
<b>WG3763343-4</b>	<b>DUP</b>	<b>WG3763343-3</b>						
Alkalinity, Total (as CaCO3)		67.9	66.5		mg/L	2.1	20	16-SEP-22
<b>WG3763343-2</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			101.6		%		85-115	16-SEP-22
<b>WG3763343-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	16-SEP-22
<b>BOD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5861115</b>							
<b>WG3762134-4</b>	<b>DUP</b>	<b>L2732174-18</b>						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	10-SEP-22
<b>WG3762134-8</b>	<b>DUP</b>	<b>L2732191-1</b>						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	10-SEP-22
<b>WG3762134-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			96.1		%		85-115	10-SEP-22
<b>WG3762134-6</b>	<b>LCS</b>							



## Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

Page 2 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>BOD-TB</b>								
<b>Water</b>								
<b>Batch</b>	<b>R5861115</b>							
<b>WG3762134-6</b>	<b>LCS</b>							
Biochemical Oxygen Demand			100.6		%		85-115	10-SEP-22
<b>WG3762134-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	10-SEP-22
<b>WG3762134-5</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	10-SEP-22
<b>Batch</b>	<b>R5862102</b>							
<b>WG3762182-3</b>	<b>DUP</b>	<b>L2732174-21</b>						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	11-SEP-22
<b>WG3762182-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			102.8		%		85-115	11-SEP-22
<b>WG3762182-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	11-SEP-22
<b>CL-L-IC-N-TB</b>								
<b>Water</b>								
<b>Batch</b>	<b>R5858816</b>							
<b>WG3762142-3</b>	<b>DUP</b>	<b>L2732174-1</b>						
Chloride (Cl)		1.82	1.78		mg/L	2.3	20	11-SEP-22
<b>WG3762142-2</b>	<b>LCS</b>							
Chloride (Cl)			100.2		%		90-110	11-SEP-22
<b>WG3762142-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	11-SEP-22
<b>WG3762142-4</b>	<b>MS</b>	<b>L2732174-2</b>						
Chloride (Cl)			99.1		%		75-125	11-SEP-22
<b>COD-T-WT</b>								
<b>Water</b>								
<b>Batch</b>	<b>R5861164</b>							
<b>WG3762965-3</b>	<b>DUP</b>	<b>L2732165-1</b>						
COD		19	19		mg/L	0.5	20	15-SEP-22
<b>WG3762965-7</b>	<b>DUP</b>	<b>L2732174-20</b>						
COD		88	92		mg/L	4.7	20	15-SEP-22
<b>WG3762965-2</b>	<b>LCS</b>							
COD			110.3		%		85-115	15-SEP-22
<b>WG3762965-6</b>	<b>LCS</b>							
COD			106.6		%		85-115	15-SEP-22
<b>WG3762965-1</b>	<b>MB</b>							
COD			<10		mg/L		10	15-SEP-22
<b>WG3762965-5</b>	<b>MB</b>							
COD			<10		mg/L		10	15-SEP-22
<b>WG3762965-4</b>	<b>MS</b>	<b>L2732165-1</b>						



### Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

Page 3 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>COD-T-WT</b>								
	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
<b>COLOUR-TB</b>								
	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
<b>EC-WT</b>								
	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

Page 4 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>EC-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5862436</b>							
<b>WG3763343-4</b>	<b>DUP</b>	<b>WG3763343-3</b>						
Conductivity		1820	1840		umhos/cm	1.0	10	16-SEP-22
<b>WG3763343-2</b>	<b>LCS</b>							
Conductivity			105.2		%		90-110	16-SEP-22
<b>WG3763343-1</b>	<b>MB</b>							
Conductivity			<1.0		umhos/cm		1	16-SEP-22
<b>F-IC-N-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5858816</b>							
<b>WG3762142-3</b>	<b>DUP</b>	<b>L2732174-1</b>						
Fluoride (F)		0.028	<0.020	RPD-NA	mg/L	N/A	20	11-SEP-22
<b>WG3762142-2</b>	<b>LCS</b>							
Fluoride (F)			99.8		%		90-110	11-SEP-22
<b>WG3762142-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	11-SEP-22
<b>WG3762142-4</b>	<b>MS</b>	<b>L2732174-2</b>						
Fluoride (F)			101.1		%		75-125	11-SEP-22
<b>MEHG-T-GCAF-VA</b>		<b>Water</b>						
<b>Batch</b>	<b>R5873836</b>							
<b>WG3768012-2</b>	<b>DUP</b>	<b>L2733061-7</b>						
Methylmercury (as MeHg)-Total		0.000061	0.000056		ug/L	8.7	30	13-OCT-22
<b>WG3768012-3</b>	<b>LCS</b>							
Methylmercury (as MeHg)-Total			85.2		%		70-130	13-OCT-22
<b>WG3768012-1</b>	<b>MB</b>							
Methylmercury (as MeHg)-Total			<0.000020		ug/L		0.00002	13-OCT-22
<b>WG3768012-4</b>	<b>MS</b>	<b>L2733842-2</b>						
Methylmercury (as MeHg)-Total			87.2		%		60-140	13-OCT-22
<b>PH-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5862360</b>							
<b>WG3763344-4</b>	<b>DUP</b>	<b>WG3763344-3</b>						
pH		8.29	8.26	J	pH units	0.03	0.2	16-SEP-22
<b>WG3763344-2</b>	<b>LCS</b>							
pH			7.00		pH units		6.9-7.1	16-SEP-22
<b>Batch</b>	<b>R5862361</b>							
<b>WG3763345-4</b>	<b>DUP</b>	<b>WG3763345-3</b>						
pH		7.95	7.88	J	pH units	0.07	0.2	16-SEP-22
<b>WG3763345-2</b>	<b>LCS</b>							
pH			7.00		pH units		6.9-7.1	16-SEP-22



### Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

Page 5 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>PH-WT</b>		<b>Water</b>						
<b>Batch R5862436</b>								
<b>WG3763343-4</b>	<b>DUP</b>	<b>WG3763343-3</b>						
pH		8.40	8.33	J	pH units	0.07	0.2	16-SEP-22
<b>WG3763343-2</b>	<b>LCS</b>		7.00		pH units		6.9-7.1	16-SEP-22
<b>PO4-DO-COL-TB</b>		<b>Water</b>						
<b>Batch R5861059</b>								
<b>WG3762296-3</b>	<b>DUP</b>	<b>L2732174-6</b>						
Orthophosphate-Dissolved (as P)		0.0028	0.0025		mg/L	9.4	20	15-SEP-22
<b>WG3762296-2</b>	<b>LCS</b>		98.9		%		80-120	15-SEP-22
Orthophosphate-Dissolved (as P)								
<b>WG3762296-1</b>	<b>MB</b>		<0.0010		mg/L		0.001	15-SEP-22
Orthophosphate-Dissolved (as P)								
<b>WG3762296-4</b>	<b>MS</b>	<b>L2732174-7</b>						
Orthophosphate-Dissolved (as P)			N/A	MS-B	%		-	15-SEP-22
<b>TOC-WT</b>		<b>Water</b>						
<b>Batch R5866432</b>								
<b>WG3763103-3</b>	<b>DUP</b>	<b>L2732165-1</b>						
Total Organic Carbon		4.44	4.16		mg/L	6.4	20	26-SEP-22
<b>WG3763103-2</b>	<b>LCS</b>		104.8		%		80-120	26-SEP-22
Total Organic Carbon								
<b>WG3763103-1</b>	<b>MB</b>		<0.50		mg/L		0.5	26-SEP-22
Total Organic Carbon								
<b>WG3763103-4</b>	<b>MS</b>	<b>L2732165-1</b>						
Total Organic Carbon			103.4		%		70-130	26-SEP-22
<b>Batch R5866434</b>								
<b>WG3763209-3</b>	<b>DUP</b>	<b>L2732191-1</b>						
Total Organic Carbon		10.1	10.2		mg/L	0.8	20	26-SEP-22
<b>WG3763209-2</b>	<b>LCS</b>		106.7		%		80-120	26-SEP-22
Total Organic Carbon								
<b>WG3763209-1</b>	<b>MB</b>		<0.50		mg/L		0.5	26-SEP-22
Total Organic Carbon								
<b>WG3763209-4</b>	<b>MS</b>	<b>L2732191-1</b>						
Total Organic Carbon			N/A	MS-B	%		-	26-SEP-22
<b>TURBIDITY-TB</b>		<b>Water</b>						



### Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

Page 6 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>TURBIDITY-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5857650</b>							
<b>WG3762139-3</b>	<b>DUP</b>	<b>L2732174-1</b>						
Turbidity		5.67	5.64		NTU	0.5	15	10-SEP-22
<b>WG3762139-2</b>	<b>LCS</b>							
Turbidity			103.5		%		85-115	10-SEP-22
<b>WG3762139-1</b>	<b>MB</b>							
Turbidity			<0.10		NTU		0.1	10-SEP-22
<b>CN-FREE-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5860356</b>							
<b>WG3762777-3</b>	<b>DUP</b>	<b>L2732174-1</b>						
Cyanide, Free		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	14-SEP-22
<b>WG3762777-7</b>	<b>DUP</b>	<b>L2732174-18</b>						
Cyanide, Free		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	14-SEP-22
<b>WG3762777-2</b>	<b>LCS</b>							
Cyanide, Free			101.3		%		80-120	14-SEP-22
<b>WG3762777-6</b>	<b>LCS</b>							
Cyanide, Free			100.3		%		80-120	14-SEP-22
<b>WG3762777-1</b>	<b>MB</b>							
Cyanide, Free			0.0008		mg/L		0.002	14-SEP-22
<b>WG3762777-5</b>	<b>MB</b>							
Cyanide, Free			0.0004		mg/L		0.002	14-SEP-22
<b>WG3762777-4</b>	<b>MS</b>	<b>L2732174-1</b>						
Cyanide, Free			107.6		%		75-125	14-SEP-22
<b>WG3762777-8</b>	<b>MS</b>	<b>L2732174-18</b>						
Cyanide, Free			105.4		%		75-125	14-SEP-22
<b>CN-T-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5860356</b>							
<b>WG3762777-3</b>	<b>DUP</b>	<b>L2732174-1</b>						
Cyanide, Total		0.0004	0.0006	RPD-NA	mg/L	N/A	20	14-SEP-22
<b>WG3762777-7</b>	<b>DUP</b>	<b>L2732174-18</b>						
Cyanide, Total		0.0010	0.0012	RPD-NA	mg/L	N/A	20	14-SEP-22
<b>WG3762777-2</b>	<b>LCS</b>							
Cyanide, Total			103.7		%		80-120	14-SEP-22
<b>WG3762777-6</b>	<b>LCS</b>							
Cyanide, Total			95.4		%		80-120	14-SEP-22
<b>WG3762777-1</b>	<b>MB</b>							
Cyanide, Total			<0.0002		mg/L		0.002	14-SEP-22
<b>WG3762777-5</b>	<b>MB</b>							
Cyanide, Total			<0.0002		mg/L		0.002	14-SEP-22







### Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

Page 8 of 28

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
<b>HG-DIS-WT</b>		<b>Effluent</b>						
Batch R5860076								
WG3762779-1	MB							
	Mercury (Hg)-Dissolved		<0.000005		mg/L		0.000005	14-SEP-22
WG3762779-4	MS	L2732165-1						
	Mercury (Hg)-Dissolved		85.3		%		70-130	14-SEP-22
Batch R5860178								
WG3762780-3	DUP	L2732174-18						
	Mercury (Hg)-Dissolved	<0.000005	<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	L2732174-20						
	Mercury (Hg)-Dissolved		81.9		%		70-130	14-SEP-22
<b>HG-TOT-WT</b>		<b>Effluent</b>						
Batch R5860061								
WG3762781-3	DUP	L2732159-1						
	Mercury (Hg)-Total	<0.000005	<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	L2732165-1						
	Mercury (Hg)-Total		74.5		%		70-130	14-SEP-22
Batch R5860063								
WG3762783-3	DUP	L2732174-18						
	Mercury (Hg)-Total	<0.000005	<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	L2732174-20						
	Mercury (Hg)-Total		84.3		%		70-130	14-SEP-22
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
Batch R5864197								
WG3763240-15	DUP	L2732191-3						
	Aluminum (Al)-Dissolved	0.0190	0.0196		mg/L	2.9	20	19-SEP-22
	Antimony (Sb)-Dissolved	0.000300	0.000300	RPD-NA	mg/L	N/A	20	19-SEP-22



### Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

Page 9 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5864197</b>							
<b>WG3763240-15</b>	<b>DUP</b>	<b>L2732191-3</b>						
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

Report Date: 09-NOV-22

Page 10 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5864197</b>							
<b>WG3763240-15 DUP</b>		<b>L2732191-3</b>						
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
<b>WG3763240-10 LCS</b>								
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

Report Date: 09-NOV-22

Page 11 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5864197</b>							
<b>WG3763240-10 LCS</b>								
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
<b>WG3763240-14 LCS</b>								
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

Page 12 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5864197</b>							
<b>WG3763240-14 LCS</b>								
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
<b>WG3763240-13 MB</b>								
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

Page 13 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5864197</b>							
<b>WG3763240-13 MB</b>								
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
<b>WG3763240-9 MB</b>								
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

Page 14 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5864197</b>							
<b>WG3763240-9</b>	<b>MB</b>							
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
<b>WG3763240-12</b>	<b>MS</b>	<b>L2732174-1</b>						
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

Report Date: 09-NOV-22

Page 15 of 28

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

**Contact:** Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>	<b>Effluent</b>							
<b>Batch</b>	<b>R5864197</b>							
<b>WG3763240-12 MS</b>		<b>L2732174-1</b>						
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

Page 16 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5864197</b>							
<b>WG3763240-12 MS</b>		<b>L2732174-1</b>						
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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5866108</b>							
<b>WG3762177-3 DUP</b>		<b>L2732174-1</b>						
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

Page 17 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5866108</b>							
<b>WG3762177-3</b>	<b>DUP</b>	<b>L2732174-1</b>						
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
<b>WG3762177-7</b>	<b>DUP</b>	<b>L2732191-4</b>						
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

Page 18 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5866108</b>							
<b>WG3762177-7</b>	<b>DUP</b>	<b>L2732191-4</b>						
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
<b>WG3762177-6</b>	<b>LCS</b>							
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

Page 19 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5866108</b>							
<b>WG3762177-6</b>	<b>LCS</b>							
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
<b>WG3762177-5</b>	<b>MB</b>							
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

Report Date: 09-NOV-22

Page 20 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5866108</b>							
<b>WG3762177-5 MB</b>								
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

Page 21 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5866342</b>							
<b>WG3764789-2</b>	<b>LCS</b>							
Boron (B)-Total			92.5		%		80-120	24-SEP-22
<b>WG3764789-1</b>	<b>MB</b>							
Boron (B)-Total			0.0040		mg/L		0.05	24-SEP-22
<b>NH3-F-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5862560</b>							
<b>WG3763099-3</b>	<b>DUP</b>	<b>WG3763099-5</b>						
Ammonia, Total (as N)		0.008	0.006	RPD-NA	mg/L	N/A	20	16-SEP-22
<b>WG3763099-2</b>	<b>LCS</b>							
Ammonia, Total (as N)			100.0		%		85-115	16-SEP-22
<b>WG3763099-1</b>	<b>MB</b>							
Ammonia, Total (as N)			<0.002		mg/L		0.02	16-SEP-22
<b>WG3763099-4</b>	<b>MS</b>	<b>WG3763099-5</b>						
Ammonia, Total (as N)			100.6		%		75-125	16-SEP-22
<b>Batch</b>	<b>R5865419</b>							
<b>WG3763992-3</b>	<b>DUP</b>	<b>L2732208-4</b>						
Ammonia, Total (as N)		0.142	0.144		mg/L	1.3	20	21-SEP-22
<b>WG3763993-3</b>	<b>DUP</b>	<b>L2732290-1</b>						
Ammonia, Total (as N)		0.016	0.016	RPD-NA	mg/L	N/A	20	22-SEP-22
<b>WG3763992-2</b>	<b>LCS</b>							
Ammonia, Total (as N)			98.4		%		85-115	21-SEP-22
<b>WG3763993-2</b>	<b>LCS</b>							
Ammonia, Total (as N)			100.4		%		85-115	21-SEP-22
<b>WG3763992-1</b>	<b>MB</b>							
Ammonia, Total (as N)			<0.002		mg/L		0.02	21-SEP-22
<b>WG3763993-1</b>	<b>MB</b>							
Ammonia, Total (as N)			<0.002		mg/L		0.02	21-SEP-22
<b>WG3763992-4</b>	<b>MS</b>	<b>L2732208-4</b>						
Ammonia, Total (as N)			N/A	MS-B	%		-	21-SEP-22
<b>WG3763993-4</b>	<b>MS</b>	<b>L2732290-1</b>						
Ammonia, Total (as N)			106.3		%		75-125	22-SEP-22
<b>NO2-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5858816</b>							
<b>WG3762142-3</b>	<b>DUP</b>	<b>L2732174-1</b>						
Nitrite (as N)		<0.001	<0.001	RPD-NA	mg/L	N/A	20	11-SEP-22
<b>WG3762142-2</b>	<b>LCS</b>							
Nitrite (as N)			98.5		%		90-110	11-SEP-22
<b>WG3762142-1</b>	<b>MB</b>							



## Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

Page 22 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>NO2-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5858816</b>							
<b>WG3762142-1</b>	<b>MB</b>							
Nitrite (as N)			<0.001		mg/L		0.01	11-SEP-22
<b>WG3762142-4</b>	<b>MS</b>	<b>L2732174-2</b>						
Nitrite (as N)			80.2		%		75-125	11-SEP-22
<b>NO3-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5858816</b>							
<b>WG3762142-3</b>	<b>DUP</b>	<b>L2732174-1</b>						
Nitrate (as N)		0.014	0.014	RPD-NA	mg/L	N/A	20	11-SEP-22
<b>WG3762142-2</b>	<b>LCS</b>							
Nitrate (as N)			100.4		%		90-110	11-SEP-22
<b>WG3762142-1</b>	<b>MB</b>							
Nitrate (as N)			0.004		mg/L		0.02	11-SEP-22
<b>WG3762142-4</b>	<b>MS</b>	<b>L2732174-2</b>						
Nitrate (as N)			99.0		%		75-125	11-SEP-22
<b>OGG-TOT-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5863398</b>							
<b>WG3763558-2</b>	<b>LCS</b>							
Oil and Grease, Total			92.6		%		50-150	19-SEP-22
<b>WG3763558-1</b>	<b>MB</b>							
Oil and Grease, Total			0.4		mg/L		1	19-SEP-22
<b>P-T-MISA-COL-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5862936</b>							
<b>WG3763106-3</b>	<b>DUP</b>	<b>L2732165-4</b>						
Phosphorus (P)-Total		0.0356	0.0383		mg/L	7.1	25	19-SEP-22
<b>WG3763106-2</b>	<b>LCS</b>							
Phosphorus (P)-Total			96.8		%		70-130	19-SEP-22
<b>WG3763106-1</b>	<b>MB</b>							
Phosphorus (P)-Total			0.0013		mg/L		0.003	19-SEP-22
<b>WG3763106-4</b>	<b>MS</b>	<b>L2732165-4</b>						
Phosphorus (P)-Total			96.7		%		70-130	19-SEP-22
<b>SO4-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5858816</b>							
<b>WG3762142-3</b>	<b>DUP</b>	<b>L2732174-1</b>						
Sulfate (SO4)		2.55	2.55		mg/L	0.5	20	11-SEP-22
<b>WG3762142-2</b>	<b>LCS</b>							
Sulfate (SO4)			101.4		%		90-110	11-SEP-22
<b>WG3762142-1</b>	<b>MB</b>							



### Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

Page 23 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>SO4-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5858816</b>							
<b>WG3762142-1</b>	<b>MB</b>							
Sulfate (SO4)			<0.05		mg/L		0.3	11-SEP-22
<b>WG3762142-4</b>	<b>MS</b>	<b>L2732174-2</b>						
Sulfate (SO4)			98.1		%		75-125	11-SEP-22
<b>TDS-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5857722</b>							
<b>WG3762133-3</b>	<b>DUP</b>	<b>L2732165-1</b>						
Total Dissolved Solids		1280	1340		mg/L	4.8	20	10-SEP-22
<b>WG3762133-2</b>	<b>LCS</b>							
Total Dissolved Solids			100.4		%		85-115	10-SEP-22
<b>WG3762133-1</b>	<b>MB</b>							
Total Dissolved Solids			10		mg/L		10	10-SEP-22
<b>Batch</b>	<b>R5858059</b>							
<b>WG3762175-2</b>	<b>LCS</b>							
Total Dissolved Solids			97.8		%		85-115	11-SEP-22
<b>WG3762175-1</b>	<b>MB</b>							
Total Dissolved Solids			4		mg/L		10	11-SEP-22
<b>TKN-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5864016</b>							
<b>WG3763095-3</b>	<b>DUP</b>	<b>WG3763095-5</b>						
Total Kjeldahl Nitrogen		0.60	0.60		mg/L	2.5	20	19-SEP-22
<b>WG3763118-3</b>	<b>DUP</b>	<b>WG3763118-5</b>						
Total Kjeldahl Nitrogen		1.05	0.95		mg/L	8.7	20	19-SEP-22
<b>WG3763095-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			107.3		%		75-125	19-SEP-22
<b>WG3763118-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			104.5		%		75-125	19-SEP-22
<b>WG3763095-1</b>	<b>MB</b>							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	19-SEP-22
<b>WG3763118-1</b>	<b>MB</b>							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	19-SEP-22
<b>WG3763095-4</b>	<b>MS</b>	<b>WG3763095-5</b>						
Total Kjeldahl Nitrogen			108		%		70-130	19-SEP-22
<b>WG3763118-4</b>	<b>MS</b>	<b>WG3763118-5</b>						
Total Kjeldahl Nitrogen			96.3		%		70-130	20-SEP-22
<b>TSS-MISA-TB</b>								
	<b>Effluent</b>							





### Quality Control Report

Workorder: L2732174

Report Date: 09-NOV-22

Page 24 of 28

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>TSS-MISA-TB</b>								
<b>Batch R5857721</b>								
<b>WG3762135-3 DUP</b>		<b>L2732165-1</b>						
Total Suspended Solids		4.0	6.0	J	mg/L	2.0	6	10-SEP-22
<b>WG3762135-2 LCS</b>								
Total Suspended Solids			96.0		%		85-115	10-SEP-22
<b>WG3762135-1 MB</b>								
Total Suspended Solids			<0.5		mg/L		3	10-SEP-22
<b>Batch R5858036</b>								
<b>WG3762176-2 LCS</b>								
Total Suspended Solids			101.2		%		85-115	11-SEP-22
<b>WG3762176-1 MB</b>								
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

Page 25 of 28

## 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
<b>Physical Tests</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Metals</b>							
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								Number of Containers	Comments	
Location: Chapple						SW Kit	Pa-226 Bottle									
Project Number:						Filtered	N	N								
Project Manager:																
PO Number:																
Project:						Preservatives								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																
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



Project Name: Rainy River Location: Chapple Project Number: Project Manager: PO Number: Project:						<b>Containers</b>												
						<b>Filtered</b>	SW Kit	Ra-226 Bottle	N	N								
						<b>Preservatives</b>												
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	RA226-MIMER-BE											
												Number of Containers						
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											
7 SW15_SW_20220906	4.5	8.03	20.99	09/06/2022 12:00	SW	X									11			
-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	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				

L2732174

LV

CHAIN OF CUSTODY RECORD - ALS-448124766



<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b> <b>Project:</b>	<b>Containers</b>		SW Kit	Ra-226 Bottle										
	<b>Filtered</b>		N	N										
	<b>Preservatives</b>													

<b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 9/8/2022 11:26:00 AM <b>COC Number:</b> ALS-448124766	<b>Number of Containers</b>	<b>Comments</b>

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													
-13 SW24_SW_20220906	3.35	8.03	18.96	09/06/2022 13:15	SW		X												12	
-14 SW03_SW_20220906	2.61	8.03	18.32	09/06/2022 14:00	SW	X													11	
-15 SW26_SW_20220906	9.05	8.03	19.23	09/06/2022 14:45	SW	X													11	
-16 SW25_SW_20220906	7.46	7.66	18.43	09/06/2022 15:10	SW	X													11	
-17 SW02_SW_20220906	3.28	7.13	18.37	09/06/2022 15:30	SW	X													11	
-18 SW22A_SW_20220906	3.04	7.39	17.54	09/07/2022 15:00	SW	X													12	

<b>Signature</b>  <b>Shipped by</b>  <b>Received by</b>	<b>Data/Time</b> 9/8/2022 11:26:00 AM	<b>Shipping Details</b> <b>Method of Shipment:</b> Courier <b>On Ice:</b> yes / no <b>Shipped:</b> Air/Ground <b>Lab Name:</b> ALS Thunder Bay <b>Lab Phone:</b>	<b>ATTN</b>	<b>Special Instructions:</b>  <b>Email Invoice to:</b> rainyriver.accounts1@newgold.com <b>Email Report to:</b> rainyriver.labresults@newgold.com



L2732174

CHAIN OF CUSTODY RECORD - ALS-44812476



<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b> <b>Project:</b>						<b>Containers</b> SW Kit Ra-226 Bottle						Number of Containers	Comments
<b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 9/8/2022 11:26:00 AM <b>COC Number:</b> ALS-448124766						Filtered N N							
<b>Preservatives</b>													
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:

---

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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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							
<b>Field Tests</b>							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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	0.000050	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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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							
<b>Field Tests</b>							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Total Dissolved Solids	166		13	mg/L		11-OCT-22	R5872617
Turbidity	8.09		0.10	NTU		11-OCT-22	R5872116
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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	0.00050	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
<b>Dissolved Metals</b>							
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	0.00050	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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
Dissolved Oxygen, Client Supplied	3.9		0	mg/L		14-OCT-22	R5874707
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Speciated Metals</b>							
Methylmercury (as MeHg)-Total	0.000226		0.000020	ug/L	05-NOV-22	10-NOV-22	R5890421
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
Dissolved Oxygen, Client Supplied	2.03		0	mg/L		14-OCT-22	R5874707
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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	0.00020	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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							

\* Refer 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							
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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	0.0000050	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	0.0000050	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	0.0000050	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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
Dissolved Oxygen, Client Supplied	4.15		0	mg/L		14-OCT-22	R5874707
<b>Radiological Parameters</b>							
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 <sub>3</sub> )	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 <sub>3</sub> )	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 <sub>3</sub> )	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

Page 1 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>BOD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5874641</b>							
<b>WG3767310-3</b>	<b>DUP</b>	<b>L2736099-1</b>						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	09-OCT-22
<b>WG3767310-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			95.7		%		85-115	09-OCT-22
<b>WG3767310-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	09-OCT-22
<b>C-DIS-ORG-LOW-CL</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5874399</b>							
<b>WG3768120-3</b>	<b>DUP</b>	<b>L2736099-1</b>						
Dissolved Organic Carbon		4.11	3.91		mg/L	5.0	20	13-OCT-22
<b>WG3768120-2</b>	<b>LCS</b>							
Dissolved Organic Carbon			112.7		%		80-120	13-OCT-22
<b>WG3768120-1</b>	<b>MB</b>							
Dissolved Organic Carbon			<0.50		mg/L		0.5	13-OCT-22
<b>WG3768120-4</b>	<b>MS</b>	<b>L2736099-1</b>						
Dissolved Organic Carbon			99.9		%		70-130	13-OCT-22
<b>C-TOT-ORG-LOW-CL</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5874399</b>							
<b>WG3768120-3</b>	<b>DUP</b>	<b>L2736099-1</b>						
Total Organic Carbon		3.56	3.61		mg/L	1.5	20	13-OCT-22
<b>WG3768120-2</b>	<b>LCS</b>							
Total Organic Carbon			108.3		%		80-120	13-OCT-22
<b>WG3768120-1</b>	<b>MB</b>							
Total Organic Carbon			<0.50		mg/L		0.5	13-OCT-22
<b>WG3768120-4</b>	<b>MS</b>	<b>L2736099-1</b>						
Total Organic Carbon			104.9		%		70-130	13-OCT-22
<b>CBOD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5876496</b>							
<b>WG3767873-3</b>	<b>DUP</b>	<b>L2736099-1</b>						
BOD Carbonaceous		<2.0	<2.0	RPD-NA	mg/L	N/A	30	13-OCT-22
<b>WG3767873-2</b>	<b>LCS</b>							
BOD Carbonaceous			99.4		%		85-115	13-OCT-22
<b>WG3767873-1</b>	<b>MB</b>							
BOD Carbonaceous			<2.0		mg/L		2	13-OCT-22
<b>CL-L-IC-N-TB</b>								
	<b>Water</b>							



## Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Page 2 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>CL-L-IC-N-TB</b>								
	Water							
<b>Batch</b>	<b>R5871897</b>							
<b>WG3767305-3</b>	<b>DUP</b>	<b>L2736113-7</b>						
Chloride (Cl)		5.25	5.24		mg/L	0.2	20	09-OCT-22
<b>WG3767305-2</b>	<b>LCS</b>							
Chloride (Cl)			102.4		%		90-110	09-OCT-22
<b>WG3767305-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	09-OCT-22
<b>WG3767305-4</b>	<b>MS</b>	<b>L2736113-8</b>						
Chloride (Cl)			104.7		%		75-125	09-OCT-22
<b>Batch</b>	<b>R5872536</b>							
<b>WG3767304-3</b>	<b>DUP</b>	<b>L2736099-1</b>						
Chloride (Cl)		53.9	53.2		mg/L	1.3	20	11-OCT-22
<b>WG3767304-2</b>	<b>LCS</b>							
Chloride (Cl)			102.4		%		90-110	11-OCT-22
<b>WG3767304-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	11-OCT-22
<b>CN-CNO-WT</b>								
	Water							
<b>Batch</b>	<b>R5875536</b>							
<b>WG3768551-3</b>	<b>DUP</b>	<b>L2736099-1</b>						
Cyanate		12.9	12.6		mg/L	2.4	20	17-OCT-22
<b>WG3768551-2</b>	<b>LCS</b>							
Cyanate			88.8		%		85-115	17-OCT-22
<b>WG3768551-1</b>	<b>MB</b>							
Cyanate			<0.20		mg/L		0.2	17-OCT-22
<b>WG3768551-4</b>	<b>MS</b>	<b>L2736099-1</b>						
Cyanate			N/A	MS-B	%		-	17-OCT-22
<b>CN-SCN-VA</b>								
	Water							
<b>Batch</b>	<b>R5875576</b>							
<b>WG3768556-3</b>	<b>DUP</b>	<b>L2736099-1</b>						
Thiocyanate (SCN)		0.63	0.64		mg/L	1.6	20	17-OCT-22
<b>WG3768556-2</b>	<b>LCS</b>							
Thiocyanate (SCN)			98.4		%		85-115	17-OCT-22
<b>WG3768556-1</b>	<b>MB</b>							
Thiocyanate (SCN)			<0.50		mg/L		0.5	17-OCT-22
<b>WG3768556-4</b>	<b>MS</b>	<b>L2736099-2</b>						
Thiocyanate (SCN)			85.8		%		75-125	17-OCT-22
<b>COD-TB</b>	<b>Water</b>							



### Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Page 3 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>COD-TB</b>		<b>Water</b>						
Batch R5872776								
WG3767288-3	DUP	L2736113-1						
Chemical Oxygen Demand		38	41		mg/L	7.6	20	12-OCT-22
WG3767288-2	LCS		109.9		%		85-115	12-OCT-22
Chemical Oxygen Demand								
WG3767288-1	MB		<10		mg/L		10	12-OCT-22
Chemical Oxygen Demand								
WG3767288-4	MS	L2736113-2	103.7		%		75-125	12-OCT-22
Chemical Oxygen Demand								
<b>COLOUR-TB</b>		<b>Water</b>						
Batch R5871781								
WG3767301-3	DUP	L2736099-1	2.3		CU	7.8	20	11-OCT-22
Color, True		2.1						
WG3767301-2	LCS		103.6		%		85-115	11-OCT-22
Color, True								
WG3767301-1	MB		<2.0		CU		2	11-OCT-22
Color, True								
<b>F-IC-N-TB</b>		<b>Water</b>						
Batch R5871897								
WG3767305-3	DUP	L2736113-7	0.057	J	mg/L	0.017	0.04	09-OCT-22
Fluoride (F)		0.039						
WG3767305-2	LCS		106.1		%		90-110	09-OCT-22
Fluoride (F)								
WG3767305-1	MB		<0.020		mg/L		0.02	09-OCT-22
Fluoride (F)								
WG3767305-4	MS	L2736113-8	109.0		%		75-125	09-OCT-22
Fluoride (F)								
Batch R5872536								
WG3767304-3	DUP	L2736099-1	<0.40	RPD-NA	mg/L	N/A	20	11-OCT-22
Fluoride (F)								
WG3767304-2	LCS		106.1		%		90-110	11-OCT-22
Fluoride (F)								
WG3767304-1	MB		<0.020		mg/L		0.02	11-OCT-22
Fluoride (F)								
<b>MEHG-T-GCAF-VA</b>		<b>Water</b>						



## Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Page 4 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MEHG-T-GCAF-VA Water</b>								
Batch	R5890421							
<b>WG3772335-2</b>	<b>LCS</b>							
Methylmercury (as MeHg)-Total			81.1		%		70-130	10-NOV-22
<b>WG3772335-1</b>	<b>MB</b>							
Methylmercury (as MeHg)-Total			<0.000020		ug/L		0.00002	10-NOV-22
<b>WG3772335-3</b>	<b>MS</b>	<b>L2736054-3</b>						
Methylmercury (as MeHg)-Total			73.9		%		60-140	10-NOV-22
<b>PO4-DO-COL-TB Water</b>								
Batch	R5871937							
<b>WG3767303-3</b>	<b>DUP</b>	<b>L2736099-1</b>						
Orthophosphate-Dissolved (as P)		0.0016	0.0018		mg/L	12	20	11-OCT-22
<b>WG3767303-2</b>	<b>LCS</b>							
Orthophosphate-Dissolved (as P)			102.8		%		80-120	11-OCT-22
<b>WG3767303-1</b>	<b>MB</b>							
Orthophosphate-Dissolved (as P)			<0.0010		mg/L		0.001	11-OCT-22
<b>WG3767303-4</b>	<b>MS</b>	<b>L2736099-2</b>						
Orthophosphate-Dissolved (as P)			100.6		%		70-130	11-OCT-22
<b>TURBIDITY-TB Water</b>								
Batch	R5871976							
<b>WG3767448-3</b>	<b>DUP</b>	<b>L2736099-4</b>						
Turbidity		2.27	2.33		NTU	2.6	15	11-OCT-22
<b>WG3767448-2</b>	<b>LCS</b>							
Turbidity			101.5		%		85-115	11-OCT-22
<b>WG3767448-1</b>	<b>MB</b>							
Turbidity			<0.10		NTU		0.1	11-OCT-22
Batch	R5872116							
<b>WG3767260-3</b>	<b>DUP</b>	<b>L2736113-7</b>						
Turbidity		8.09	7.88		NTU	2.6	15	11-OCT-22
<b>WG3767260-2</b>	<b>LCS</b>							
Turbidity			102.0		%		85-115	11-OCT-22
<b>WG3767260-1</b>	<b>MB</b>							
Turbidity			<0.10		NTU		0.1	11-OCT-22
<b>ACY-MISA-TB Effluent</b>								
Batch	R5873356							
<b>WG3767299-3</b>	<b>DUP</b>	<b>L2736113-1</b>						
Acidity (as CaCO3)		0.8	0.6	RPD-NA	mg/L	N/A	20	12-OCT-22
<b>WG3767299-2</b>	<b>LCS</b>							
Acidity (as CaCO3)			92.8		%		85-115	12-OCT-22



## Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Page 5 of 21

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

**Contact:** Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>ACY-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5873356</b>							
<b>WG3767299-1 MB</b>								
Acidity (as CaCO3)			2.2		mg/L		3	12-OCT-22
<b>ALK-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5872436</b>							
<b>WG3767297-3 DUP</b>		<b>L2736113-6</b>						
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
<b>WG3767296-2 LCS</b>								
Alkalinity, Total (as CaCO3)			102.3		%		85-115	11-OCT-22
<b>WG3767297-2 LCS</b>								
Alkalinity, Total (as CaCO3)			101.0		%		85-115	11-OCT-22
<b>WG3767296-1 MB</b>								
Alkalinity, Total (as CaCO3)			0.2		mg/L		2	11-OCT-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	11-OCT-22
<b>WG3767297-1 MB</b>								
Alkalinity, Total (as CaCO3)			0.6		mg/L		2	11-OCT-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	11-OCT-22
<b>CN-FREE-MISA-CFA-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5874337</b>							
<b>WG3767869-3 DUP</b>		<b>L2736114-2</b>						
Cyanide, Free		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	13-OCT-22
<b>WG3767869-8 DUP</b>		<b>L2736113-15</b>						
Cyanide, Free		0.0003	<0.0001	RPD-NA	mg/L	N/A	20	13-OCT-22
<b>WG3767869-2 LCS</b>								
Cyanide, Free			97.1		%		80-120	13-OCT-22
<b>WG3767869-6 LCS</b>								
Cyanide, Free			98.3		%		80-120	13-OCT-22
<b>WG3767869-1 MB</b>								
Cyanide, Free			0.0001		mg/L		0.002	13-OCT-22
<b>WG3767869-5 MB</b>								
Cyanide, Free			0.0002		mg/L		0.002	13-OCT-22
<b>WG3767869-4 MS</b>		<b>L2736114-2</b>						
Cyanide, Free			106.8		%		75-125	13-OCT-22
<b>WG3767869-7 MS</b>		<b>L2736113-15</b>						
Cyanide, Free			103.0		%		75-125	13-OCT-22





### Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Page 6 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>CN-FREE-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5874456</b>							
<b>WG3767876-3</b>	<b>DUP</b>	<b>L2736113-16</b>						
Cyanide, Free		0.0006	0.0004	RPD-NA	mg/L	N/A	20	13-OCT-22
<b>WG3767876-2</b>	<b>LCS</b>							
Cyanide, Free			101.1		%		80-120	13-OCT-22
<b>WG3767876-1</b>	<b>MB</b>							
Cyanide, Free			<0.0001		mg/L		0.002	13-OCT-22
<b>WG3767876-4</b>	<b>MS</b>	<b>L2736113-16</b>						
Cyanide, Free			101.1		%		75-125	13-OCT-22
<b>CN-T-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5874337</b>							
<b>WG3767869-3</b>	<b>DUP</b>	<b>L2736114-2</b>						
Cyanide, Total		<0.0002	<0.0002	RPD-NA	mg/L	N/A	20	13-OCT-22
<b>WG3767869-8</b>	<b>DUP</b>	<b>L2736113-15</b>						
Cyanide, Total		0.0002	0.0002	RPD-NA	mg/L	N/A	20	13-OCT-22
<b>WG3767869-2</b>	<b>LCS</b>							
Cyanide, Total			89.2		%		80-120	13-OCT-22
<b>WG3767869-6</b>	<b>LCS</b>							
Cyanide, Total			87.0		%		80-120	13-OCT-22
<b>WG3767869-1</b>	<b>MB</b>							
Cyanide, Total			<0.0002		mg/L		0.002	13-OCT-22
<b>WG3767869-5</b>	<b>MB</b>							
Cyanide, Total			<0.0002		mg/L		0.002	13-OCT-22
<b>WG3767869-4</b>	<b>MS</b>	<b>L2736114-2</b>						
Cyanide, Total			83.8		%		75-125	13-OCT-22
<b>WG3767869-7</b>	<b>MS</b>	<b>L2736113-15</b>						
Cyanide, Total			84.4		%		75-125	13-OCT-22
<b>Batch</b>	<b>R5874456</b>							
<b>WG3767876-3</b>	<b>DUP</b>	<b>L2736113-16</b>						
Cyanide, Total		0.0008	0.0008	RPD-NA	mg/L	N/A	20	13-OCT-22
<b>WG3767876-2</b>	<b>LCS</b>							
Cyanide, Total			93.1		%		80-120	13-OCT-22
<b>WG3767876-1</b>	<b>MB</b>							
Cyanide, Total			<0.0002		mg/L		0.002	13-OCT-22
<b>WG3767876-4</b>	<b>MS</b>	<b>L2736113-16</b>						
Cyanide, Total			90.4		%		75-125	13-OCT-22
<b>CN-WAD-MISA-CFA-WT</b>		<b>Effluent</b>						



### Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Page 7 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>CN-WAD-MISA-CFA-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5874337</b>							
<b>WG3767869-3</b>	<b>DUP</b>	<b>L2736114-2</b>						
Cyanide, Weak Acid Diss		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	13-OCT-22
<b>WG3767869-8</b>	<b>DUP</b>	<b>L2736113-15</b>						
Cyanide, Weak Acid Diss		<0.0001	<0.0001	RPD-NA	mg/L	N/A	20	13-OCT-22
<b>WG3767869-2</b>	<b>LCS</b>							
Cyanide, Weak Acid Diss			106.8		%		80-120	13-OCT-22
<b>WG3767869-6</b>	<b>LCS</b>							
Cyanide, Weak Acid Diss			107.3		%		80-120	13-OCT-22
<b>WG3767869-1</b>	<b>MB</b>							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	13-OCT-22
<b>WG3767869-5</b>	<b>MB</b>							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	13-OCT-22
<b>WG3767869-4</b>	<b>MS</b>	<b>L2736114-2</b>						
Cyanide, Weak Acid Diss			104.1		%		75-125	13-OCT-22
<b>WG3767869-7</b>	<b>MS</b>	<b>L2736113-15</b>						
Cyanide, Weak Acid Diss			104.5		%		75-125	13-OCT-22
<b>Batch</b>	<b>R5874456</b>							
<b>WG3767876-3</b>	<b>DUP</b>	<b>L2736113-16</b>						
Cyanide, Weak Acid Diss		0.0009	0.0007	RPD-NA	mg/L	N/A	20	13-OCT-22
<b>WG3767876-2</b>	<b>LCS</b>							
Cyanide, Weak Acid Diss			107.7		%		80-120	13-OCT-22
<b>WG3767876-1</b>	<b>MB</b>							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	13-OCT-22
<b>WG3767876-4</b>	<b>MS</b>	<b>L2736113-16</b>						
Cyanide, Weak Acid Diss			108.2		%		75-125	13-OCT-22
<b>EC-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5872436</b>							
<b>WG3767297-3</b>	<b>DUP</b>	<b>L2736113-6</b>						
Conductivity (EC)		383	375		uS/cm	2.1	10	11-OCT-22
<b>WG3767296-2</b>	<b>LCS</b>							
Conductivity (EC)			98.7		%		90-110	11-OCT-22
<b>WG3767297-2</b>	<b>LCS</b>							
Conductivity (EC)			100.2		%		90-110	11-OCT-22
<b>WG3767296-1</b>	<b>MB</b>							
Conductivity (EC)			0.6		uS/cm		2	11-OCT-22
<b>WG3767297-1</b>	<b>MB</b>							
Conductivity (EC)			<0.2		uS/cm		2	11-OCT-22
<b>HG-DIS-WT</b>								
	<b>Effluent</b>							



### Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Page 8 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>HG-DIS-WT</b>		<b>Effluent</b>						
<b>Batch R5874712</b>								
<b>WG3767910-3 DUP</b>		<b>L2736099-1</b>						
Mercury (Hg)-Dissolved		0.000005	0.000005		mg/L	11	20	14-OCT-22
<b>WG3767910-2 LCS</b>								
Mercury (Hg)-Dissolved			111.0		%		80-120	14-OCT-22
<b>WG3767910-1 MB</b>								
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.000005	14-OCT-22
<b>WG3767910-4 MS</b>		<b>L2736099-2</b>						
Mercury (Hg)-Dissolved			109.1		%		70-130	14-OCT-22
<b>Batch R5875277</b>								
<b>WG3767913-3 DUP</b>		<b>L2736113-4</b>						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	17-OCT-22
<b>WG3767913-2 LCS</b>								
Mercury (Hg)-Dissolved			89.1		%		80-120	17-OCT-22
<b>WG3767913-1 MB</b>								
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.000005	17-OCT-22
<b>WG3767913-4 MS</b>		<b>L2736113-5</b>						
Mercury (Hg)-Dissolved			80.7		%		70-130	17-OCT-22
<b>HG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch R5873405</b>								
<b>WG3767793-3 DUP</b>		<b>L2736108-3</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	13-OCT-22
<b>WG3767793-2 LCS</b>								
Mercury (Hg)-Total			104.0		%		80-120	13-OCT-22
<b>WG3767793-1 MB</b>								
Mercury (Hg)-Total			<0.000005		mg/L		0.000005	13-OCT-22
<b>WG3767793-4 MS</b>		<b>L2736113-1</b>						
Mercury (Hg)-Total			96.5		%		70-130	13-OCT-22
<b>MET-D-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch R5874017</b>								
<b>WG3767964-4 DUP</b>		<b>WG3767964-3</b>						
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

Page 9 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5874017</b>							
<b>WG3767964-4</b>	<b>DUP</b>	<b>WG3767964-3</b>						
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
<b>WG3767964-1</b>	<b>MB</b>							



### Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Page 10 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5874017</b>							
<b>WG3767964-1</b>	<b>MB</b>							
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

Page 11 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-D-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5874017</b>							
<b>WG3767964-1</b>	<b>MB</b>							
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
<b>MET-T-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5874979</b>							
<b>WG3768000-4</b>	<b>DUP</b>	<b>WG3768000-3</b>						
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

Page 12 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5874979</b>							
<b>WG3768000-4 DUP</b>	<b>WG3768000-3</b>							
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
<b>WG3768000-1 MB</b>								
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

Page 13 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-T-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch R5874979</b>								
<b>WG3768000-1 MB</b>								
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
<b>NH3-MISA-F-TB</b>		<b>Effluent</b>						
<b>Batch R5872756</b>								
<b>WG3767287-3 DUP</b>		<b>L2736113-1</b>						
Ammonia, Total (as N)		0.004	0.002	RPD-NA	mg/L	N/A	20	11-OCT-22
<b>WG3767287-2 LCS</b>								
Ammonia, Total (as N)			90.4		%		85-115	11-OCT-22
<b>WG3767287-1 MB</b>								
Ammonia, Total (as N)			<0.002		mg/L		0.005	11-OCT-22
<b>WG3767287-4 MS</b>		<b>L2736113-2</b>						
Ammonia, Total (as N)			103.3		%		75-125	11-OCT-22
<b>NO2-MISA-IC-TB</b>		<b>Effluent</b>						





### Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Page 14 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>NO2-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5871897</b>							
<b>WG3767305-3</b>	<b>DUP</b>	<b>L2736113-7</b>						
Nitrite (as N)		0.014	0.014		mg/L	1.7	20	09-OCT-22
<b>WG3767305-2</b>	<b>LCS</b>							
Nitrite (as N)			99.7		%		90-110	09-OCT-22
<b>WG3767305-1</b>	<b>MB</b>							
Nitrite (as N)			<0.001		mg/L		0.01	09-OCT-22
<b>WG3767305-4</b>	<b>MS</b>	<b>L2736113-8</b>						
Nitrite (as N)			102.0		%		75-125	09-OCT-22
<b>Batch</b>	<b>R5872536</b>							
<b>WG3767304-3</b>	<b>DUP</b>	<b>L2736099-1</b>						
Nitrite (as N)		0.540	0.530		mg/L	1.8	20	11-OCT-22
<b>WG3767304-2</b>	<b>LCS</b>							
Nitrite (as N)			104.7		%		90-110	11-OCT-22
<b>WG3767304-1</b>	<b>MB</b>							
Nitrite (as N)			<0.001		mg/L		0.01	11-OCT-22
<b>NO3-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5871897</b>							
<b>WG3767305-3</b>	<b>DUP</b>	<b>L2736113-7</b>						
Nitrate (as N)		0.122	0.124		mg/L	0.4	20	09-OCT-22
<b>WG3767305-2</b>	<b>LCS</b>							
Nitrate (as N)			103.3		%		90-110	09-OCT-22
<b>WG3767305-1</b>	<b>MB</b>							
Nitrate (as N)			<0.002		mg/L		0.02	09-OCT-22
<b>WG3767305-4</b>	<b>MS</b>	<b>L2736113-8</b>						
Nitrate (as N)			106.2		%		75-125	09-OCT-22
<b>Batch</b>	<b>R5872536</b>							
<b>WG3767304-3</b>	<b>DUP</b>	<b>L2736099-1</b>						
Nitrate (as N)		8.40	8.44		mg/L	0.5	20	11-OCT-22
<b>WG3767304-2</b>	<b>LCS</b>							
Nitrate (as N)			103.5		%		90-110	11-OCT-22
<b>WG3767304-1</b>	<b>MB</b>							
Nitrate (as N)			<0.002		mg/L		0.02	11-OCT-22
<b>OGG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5873696</b>							
<b>WG3767803-2</b>	<b>LCS</b>							
Oil and Grease, Total			97.4		%		50-150	13-OCT-22
<b>WG3767803-1</b>	<b>MB</b>							



## Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Page 15 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>OGG-TOT-WT</b>		<b>Effluent</b>						
Batch	R5873696							
WG3767803-1	MB							
Oil and Grease, Total			0.2		mg/L		1	13-OCT-22
<b>PH-MISA-TB</b>		<b>Effluent</b>						
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
<b>SO4-MISA-IC-TB</b>		<b>Effluent</b>						
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
<b>TDS-MISA-TB</b>		<b>Effluent</b>						
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

Page 16 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>TDS-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5872021</b>							
<b>WG3767292-1 MB</b>	Total Dissolved Solids		<2		mg/L		10	09-OCT-22
<b>Batch</b>	<b>R5872617</b>							
<b>WG3767371-3 DUP</b>	Total Dissolved Solids	<b>L2736113-16</b> 248	248		mg/L	0.0	20	11-OCT-22
<b>WG3767371-2 LCS</b>	Total Dissolved Solids		99.1		%		85-115	11-OCT-22
<b>WG3767371-1 MB</b>	Total Dissolved Solids		4		mg/L		10	11-OCT-22
<b>Batch</b>	<b>R5872858</b>							
<b>WG3767451-3 DUP</b>	Total Dissolved Solids	<b>L2736038-1</b> 1880	1850		mg/L	1.7	20	11-OCT-22
<b>WG3767451-2 LCS</b>	Total Dissolved Solids		101.1		%		85-115	11-OCT-22
<b>WG3767451-1 MB</b>	Total Dissolved Solids		<2		mg/L		10	11-OCT-22
<b>TKN-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5878630</b>							
<b>WG3768698-3 DUP</b>	Total Kjeldahl Nitrogen	<b>L2736099-1</b> 19.3	17.7		mg/L	8.8	20	20-OCT-22
<b>WG3768702-3 DUP</b>	Total Kjeldahl Nitrogen	<b>L2736114-1</b> 0.35	0.30		mg/L	18	20	21-OCT-22
<b>WG3768698-2 LCS</b>	Total Kjeldahl Nitrogen		110.4		%		75-125	20-OCT-22
<b>WG3768702-2 LCS</b>	Total Kjeldahl Nitrogen		108.5		%		75-125	20-OCT-22
<b>WG3768698-1 MB</b>	Total Kjeldahl Nitrogen		<0.05		mg/L		0.18	20-OCT-22
<b>WG3768702-1 MB</b>	Total Kjeldahl Nitrogen		<0.05		mg/L		0.18	20-OCT-22
<b>WG3768698-4 MS</b>	Total Kjeldahl Nitrogen	<b>L2736099-1</b>	N/A	MS-B	%		-	20-OCT-22
<b>WG3768702-4 MS</b>	Total Kjeldahl Nitrogen	<b>L2736114-1</b>	106.4		%		70-130	21-OCT-22
<b>TSS-MISA-TB</b>		<b>Effluent</b>						



### Quality Control Report

Workorder: L2736113

Report Date: 09-DEC-22

Page 17 of 21

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

Contact: Garnet Cornell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>TSS-MISA-TB</b>								
<b>Batch R5871980</b>								
<b>WG3767293-3 DUP</b>		<b>L2736113-17</b>						
Total Suspended Solids		1.5	1.0	RPD-NA	mg/L	N/A	20	09-OCT-22
<b>WG3767293-2 LCS</b>								
Total Suspended Solids			100.2		%		85-115	09-OCT-22
<b>WG3767293-1 MB</b>								
Total Suspended Solids			<0.5		mg/L		3	09-OCT-22
<b>Batch R5872560</b>								
<b>WG3767373-3 DUP</b>		<b>L2736113-16</b>						
Total Suspended Solids		3.0	2.5	RPD-NA	mg/L	N/A	20	11-OCT-22
<b>WG3767373-2 LCS</b>								
Total Suspended Solids			94.8		%		85-115	11-OCT-22
<b>WG3767373-1 MB</b>								
Total Suspended Solids			<0.5		mg/L		3	11-OCT-22
<b>Batch R5872796</b>								
<b>WG3767452-3 DUP</b>		<b>L2736038-1</b>						
Total Suspended Solids		2.5	1.5	RPD-NA	mg/L	N/A	20	11-OCT-22
<b>WG3767452-2 LCS</b>								
Total Suspended Solids			93.8		%		85-115	11-OCT-22
<b>WG3767452-1 MB</b>								
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

Page 18 of 21

## 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

Contact: Garnet Cornell

**Hold Time Exceedances:**

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Physical Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Leachable Anions &amp; Nutrients</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Metals</b>							
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
<b>Aggregate Organics</b>							

# 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
<b>Aggregate Organics</b>							
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

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	Pa-226 Bottle		
						Filtered	N		
						Preservatives			
						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		Data/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



10728412 0000

CHAIN OF CUSTODY RECORD - ALS-448403909

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 10/6/2022 9:23:00 AM <b>COC Number:</b> ALS-448403909						<b>Containers</b> SW Kit Ra-226 Bottle										
						<b>Filtered</b> N N										
						<b>Preservatives</b>										
						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	

<b>Signature</b> Shipped by Received by <i>NP3</i>		<b>Date/Time</b> 10/6/2022 9:23:00 AM <i>Oct 7, 22 11:15 AM</i>		<b>Shipping Details</b> Method of Shipment: Courier On Ice: yes / no Shipped: Air/Ground Lab Name: ALS Thunder Bay Lab Phone:		<b>ATTN</b>		<b>Special Instructions:</b> 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

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b>						<b>Containers</b>  <b>Filtered</b>		SW Kit	Ra-226 Bottle									Number of Containers	Comments
<b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 10/6/2022 9:23:00 AM <b>COC Number:</b> ALS-448403909						<b>Preservatives</b>		N	N										
<b>Sample Code</b>	<b>Field Dissolved Oxygen (mg/L)</b>	<b>Field pH (pH Units)</b>	<b>Field Temp (°C)</b>	<b>Date and Time</b>	<b>Matrix</b>	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		

<b>Signature</b>	<b>Date/Time</b>	<b>Shipping Details</b>	<b>ATTN</b>	<b>Special Instructions:</b>
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

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 10/6/2022 9:23:00 AM <b>COC Number:</b> ALS-448403909						<b>Containers</b> SW Kit Ra-226 Bottle									
						<b>Filtered</b> N N									
						<b>Preservatives</b>									
						NG-SW-P-TB RA226-MMER-BE									
		<b>Field Dissolved Oxygen (mg/L)</b>	<b>Field pH (pH Units)</b>	<b>Field Temp (°C)</b>	<b>Date and Time</b>	<b>Matrix</b>									
<b>Sample Code</b>														<b>Number of Containers</b>	<b>Comments</b>
19 SW23_SW_20221004		4.15	6.8	15.11	10/04/2022 17:00	SW		X						12	

**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

<b>Signature</b>	<b>Date/Time</b>	<b>Shipping Details</b>	<b>ATTN</b>	<b>Special Instructions:</b>
Shipped by	10/6/2022 9:23:00 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 - Oct 7, 22 11:15 AM Temp - 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	<b>Method of Shipment:</b> Courier <b>On Ice:</b> yes / no <b>Shipped:</b> Air/Ground		
Received by		<b>Lab Name:</b> ALS Thunder Bay <b>Lab Phone:</b>		<b>Email Invoice to:</b> rainyriver.accounts1@newgold.com <b>Email Report to:</b> rainyriver.labresults@newgold.com

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:

---

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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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							
<b>Field Tests</b>							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Turbidity	<0.10		0.10	NTU		18-NOV-22	R5894199
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
Sulfate (SO4)	3.90	<T	0.30	mg/L		19-NOV-22	R5895058
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							

\* Refer 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							
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
Cyanide, Free	0.0013	<DL	0.0020	mg/L		22-NOV-22	R5896437
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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							
<b>Organic / Inorganic Carbon</b>							
Total Organic Carbon	29.0		0.50	mg/L		24-NOV-22	R5897641
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
Zirconium (Zr)-Total	0.000088	<DL	0.00020	mg/L		23-NOV-22	R5897016
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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	0.0000050	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	0.0000050	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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							

\* Refer 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							
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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 &amp; 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 <sub>3</sub> )	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 <sub>3</sub> )	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 <sub>3</sub> )	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

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
<b>BOD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5896456</b>							
<b>WG3773216-3</b>	<b>DUP</b>	<b>L2740657-11</b>						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	18-NOV-22
<b>WG3773216-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			96.5		%		85-115	18-NOV-22
<b>WG3773216-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	18-NOV-22
<b>CL-L-IC-N-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5895058</b>							
<b>WG3773264-2</b>	<b>LCS</b>							
Chloride (Cl)			100.5		%		90-110	19-NOV-22
<b>WG3773264-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	19-NOV-22
<b>COD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5895176</b>							
<b>WG3773209-3</b>	<b>DUP</b>	<b>L2740461-1</b>						
Chemical Oxygen Demand		43	45		mg/L	2.8	20	21-NOV-22
<b>WG3773209-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			105.8		%		85-115	21-NOV-22
<b>WG3773209-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	21-NOV-22
<b>WG3773209-4</b>	<b>MS</b>	<b>L2740461-2</b>						
Chemical Oxygen Demand			96.8		%		75-125	21-NOV-22
<b>Batch</b>	<b>R5896502</b>							
<b>WG3773211-3</b>	<b>DUP</b>	<b>L2740657-9</b>						
Chemical Oxygen Demand		61	64		mg/L	5.5	20	23-NOV-22
<b>WG3773211-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			107.8		%		85-115	23-NOV-22
<b>WG3773211-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	23-NOV-22
<b>WG3773211-4</b>	<b>MS</b>	<b>L2740657-10</b>						
Chemical Oxygen Demand			96.4		%		75-125	23-NOV-22
<b>COLOUR-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5894556</b>							
<b>WG3773260-2</b>	<b>LCS</b>							
Color, True			104.5		%		85-115	18-NOV-22
<b>WG3773260-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	18-NOV-22



### Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-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
<b>F-IC-N-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5895058</b>							
<b>WG3773264-2</b>	<b>LCS</b>							
Fluoride (F)			104.6		%		90-110	19-NOV-22
<b>WG3773264-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	19-NOV-22
<b>PO4-DO-COL-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5897360</b>							
<b>WG3773261-3</b>	<b>DUP</b>	<b>L2740657-1</b>						
Orthophosphate-Dissolved (as P)		0.0041	0.0037		mg/L	9.0	20	23-NOV-22
<b>WG3773261-2</b>	<b>LCS</b>							
Orthophosphate-Dissolved (as P)			98.1		%		80-120	23-NOV-22
<b>WG3773261-1</b>	<b>MB</b>							
Orthophosphate-Dissolved (as P)			<0.0010		mg/L		0.001	23-NOV-22
<b>WG3773261-4</b>	<b>MS</b>	<b>L2740657-2</b>						
Orthophosphate-Dissolved (as P)			111.6		%		70-130	23-NOV-22
<b>TKN-F-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5897126</b>							
<b>WG3773206-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			112.3		%		75-125	22-NOV-22
<b>WG3773206-1</b>	<b>MB</b>							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	22-NOV-22
<b>WG3773206-4</b>	<b>MS</b>	<b>L2740461-2</b>						
Total Kjeldahl Nitrogen			108.2		%		70-130	22-NOV-22
<b>TOC-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5897641</b>							
<b>WG3773838-3</b>	<b>DUP</b>	<b>WG3773838-5</b>						
Total Organic Carbon		9.14	9.60		mg/L	4.8	20	24-NOV-22
<b>WG3773838-2</b>	<b>LCS</b>							
Total Organic Carbon			100.6		%		80-120	24-NOV-22
<b>WG3773838-1</b>	<b>MB</b>							
Total Organic Carbon			<0.50		mg/L		0.5	24-NOV-22
<b>WG3773838-4</b>	<b>MS</b>	<b>WG3773838-5</b>						
Total Organic Carbon			N/A	MS-B	%		-	24-NOV-22
<b>Batch</b>	<b>R5899037</b>							
<b>WG3774051-3</b>	<b>DUP</b>	<b>L2740657-10</b>						
Total Organic Carbon		16.1	16.7		mg/L	3.4	20	28-NOV-22
<b>WG3774051-2</b>	<b>LCS</b>							
Total Organic Carbon			93.5		%		80-120	28-NOV-22





### Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

Page 4 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
<b>CN-FREE-MISA-CFA-WT Effluent</b>								
Batch R5896437								
WG3773506-1	MB		<0.0001		mg/L		0.002	22-NOV-22
Cyanide, Free								
WG3773506-4	MS	L2740588-1	108.7		%		75-125	22-NOV-22
Cyanide, Free								
<b>CN-T-MISA-CFA-WT Effluent</b>								
Batch R5896437								
WG3773506-3	DUP	L2740588-1	0.0006	RPD-NA	mg/L	N/A	20	22-NOV-22
Cyanide, Total								
WG3773506-2	LCS		94.9		%		80-120	22-NOV-22
Cyanide, Total								
WG3773506-1	MB		0.0002		mg/L		0.002	22-NOV-22
Cyanide, Total								
WG3773506-4	MS	L2740588-1	86.8		%		75-125	22-NOV-22
Cyanide, Total								
<b>CN-WAD-MISA-CFA-WT Effluent</b>								
Batch R5896437								
WG3773506-3	DUP	L2740588-1	0.0005	RPD-NA	mg/L	N/A	20	22-NOV-22
Cyanide, Weak Acid Diss								
WG3773506-2	LCS		112.9		%		80-120	22-NOV-22
Cyanide, Weak Acid Diss								
WG3773506-1	MB		<0.0001		mg/L		0.002	22-NOV-22
Cyanide, Weak Acid Diss								
WG3773506-4	MS	L2740588-1	111.4		%		75-125	22-NOV-22
Cyanide, Weak Acid Diss								
<b>DOC-WT Effluent</b>								
Batch R5895376								
WG3773332-3	DUP	L2740124-1	5.88		mg/L	3.7	25	21-NOV-22
Dissolved Organic Carbon								
WG3773332-2	LCS		102.9		%		70-130	21-NOV-22
Dissolved Organic Carbon								
WG3773332-1	MB		<0.50		mg/L		0.5	21-NOV-22
Dissolved Organic Carbon								
<b>EC-MISA-TB Effluent</b>								
Batch R5894583								
WG3773255-3	DUP	L2740650-1	1630		uS/cm	0.6	10	18-NOV-22
Conductivity (EC)								
WG3773255-2	LCS							





### Quality Control Report

Workorder: L2740657

Report Date: 21-DEC-22

Page 5 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
<b>EC-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5894583</b>							
<b>WG3773255-2</b>	<b>LCS</b>							
Conductivity (EC)			97.5		%		90-110	18-NOV-22
<b>WG3773255-1</b>	<b>MB</b>							
Conductivity (EC)			<0.2		uS/cm		2	18-NOV-22
<b>HG-DIS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5895577</b>							
<b>WG3773586-3</b>	<b>DUP</b>	<b>L2740657-1</b>						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	22-NOV-22
<b>WG3773586-2</b>	<b>LCS</b>							
Mercury (Hg)-Dissolved			101.0		%		80-120	22-NOV-22
<b>WG3773586-1</b>	<b>MB</b>							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.000005	22-NOV-22
<b>WG3773586-4</b>	<b>MS</b>	<b>L2740657-2</b>						
Mercury (Hg)-Dissolved			95.5		%		70-130	22-NOV-22
<b>HG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5895036</b>							
<b>WG3773445-3</b>	<b>DUP</b>	<b>L2740201-1</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	21-NOV-22
<b>WG3773445-2</b>	<b>LCS</b>							
Mercury (Hg)-Total			103.0		%		80-120	21-NOV-22
<b>WG3773445-1</b>	<b>MB</b>							
Mercury (Hg)-Total			<0.000005		mg/L		0.000005	21-NOV-22
<b>WG3773445-4</b>	<b>MS</b>	<b>L2740650-1</b>						
Mercury (Hg)-Total			100.7		%		70-130	21-NOV-22
<b>MET-D-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5895397</b>							
<b>WG3773473-16</b>	<b>DUP</b>	<b>WG3773473-15</b>						
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

Page 6 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
<b>MET-D-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5895397</b>							
<b>WG3773473-16</b>	<b>DUP</b>	<b>WG3773473-15</b>						
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
<b>WG3773473-13 MB</b>								
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

Page 7 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
<b>MET-D-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5895397</b>							
<b>WG3773473-13 MB</b>								
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

Page 8 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
<b>MET-D-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch R5895397</b>								
<b>WG3773473-13 MB</b>								
Uranium (U)-Dissolved			<0.000000E		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
<b>Batch R5897131</b>								
<b>WG3773920-4 DUP</b>		<b>WG3773920-3</b>						
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

Page 9 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
<b>MET-D-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5897131</b>							
<b>WG3773920-4</b>	<b>DUP</b>	<b>WG3773920-3</b>						
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
<b>WG3773920-1</b>	<b>MB</b>							
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

Page 10 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
------	--------	-----------	--------	-----------	-------	-----	-------	----------

**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

Page 11 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
<b>MET-T-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5897016</b>							
<b>WG3773555-4</b>	<b>DUP</b>	<b>WG3773555-3</b>						
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
<b>WG3773555-1</b>	<b>MB</b>							
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

Page 12 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
<b>MET-T-MISA-MS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5897016</b>							
<b>WG3773555-1 MB</b>								
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

Page 13 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
<b>MET-T-MISA-MS-WT Effluent</b>								
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
<b>NH3-MISA-F-TB Effluent</b>								
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
<b>NO2-MISA-IC-TB Effluent</b>								
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
<b>NO3-MISA-IC-TB Effluent</b>								
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
<b>OGG-TOT-WT Effluent</b>								
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

Page 14 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
<b>PH-MISA-TB</b>		<b>Effluent</b>						
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
<b>SO4-MISA-IC-TB</b>		<b>Effluent</b>						
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
<b>TDS-MISA-TB</b>		<b>Effluent</b>						
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
<b>TSS-MISA-TB</b>		<b>Effluent</b>						
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

Page 15 of 18

## 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

Page 16 of 18

Contact: Garnet Cornell

## Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Physical Tests</b>							
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

**Hold Time Exceedances:**

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Leachable Anions &amp; Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Lab Section 4</b>			
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
<b>Lab Section 4</b>			
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**

<b>Name</b>	<b>Units</b>	<b>Method</b>
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

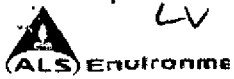
**Duplicates:**

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



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

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	
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:	
			On Ice: yes / no				rainyriver.accounts1@newgold.com	
Received by			Shipped: Air/Ground				Email Report to:	
Adnan		16 Nov 22 9:50	Lab Name: ALS Thunder Bay				rainyriver.labresults@newgold.com	
			Lab Phone:					



CHAIN OF CUSTODY RECORD - ALS-448776868

Project Name: Rainy River  
 Location: Chapple  
 Project Number:  
 Project Manager:

Containers

SW Kit

Ra-226 Bottle

Filtered

N

N

Preservatives

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

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									Number of Containers	Comments
76 ✓ SW10_SW_20221108	10.96	6.54	1.31	11/11/2022 13:10	SW	X										11	12
87 ✓ SW28A_SW_20221108	15.65	6.96	0.14	11/11/2022 13:35	SW	X										11	12
98 ✓ SW02_SW_20221108	11.34	6.87	0.45	11/11/2022 14:10	SW	X										11	12
109 ✓ SW27_SW_20221108	12.38	7.23	0.54	11/11/2022 16:00	SW	X										11	12
10 ✓ SW21A_SW_20221108	10.25	6.91	1.36	11/11/2022 16:10	SW	X										11	12
121 ✓ SW22A_SW_20221108	11.26	7.01	1.08	11/11/2022 16:40	SW	X										12	13

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		Lab Name: ALS Thunder Bay Lab Phone:		



CHAIN OF CUSTODY RECORD - ALS-448776868

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b>						<b>Containers</b>  <b>Filtered</b>		SW Kit	RA-226 Bottle											
<b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 11/12/2022 4:29:00 PM <b>COC Number:</b> ALS-448776868						<b>Preservatives</b>														
						NG-SW-P-TB	RA226-MIMER-BE													
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	



<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b>						<b>Containers</b>  <b>Filtered</b>		SW Kit N	Ra-226 Bottle N										
<b>PO Number:</b> <b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 11/12/2022 4:29:00 PM <b>COC Number:</b> ALS-448776868						<b>Preservatives</b>													
						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)			
<b>Signature</b>	<b>Date/Time</b>	<b>Shipping Details</b>	<b>ATTN</b>
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			<b>Special Instructions:</b>  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:

---

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							
<b>Field Tests</b>							
pH, Client Supplied	6.99		0.10	pH		20-NOV-22	R5894656
Temperature, Client Supplied	2.25		0	Degree C		20-NOV-22	R5894656
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.97		0.10	pH		20-NOV-22	R5894656
Temperature, Client Supplied	1.77		0	Degree C		20-NOV-22	R5894656
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.08		0.10	pH		20-NOV-22	R5894656
Temperature, Client Supplied	1.32		0	Degree C		20-NOV-22	R5894656
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	6.78		0.10	pH		20-NOV-22	R5894656
Temperature, Client Supplied	3.57		0	Degree C		20-NOV-22	R5894656
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.12		0.10	pH		20-NOV-22	R5894656
Temperature, Client Supplied	4.03		0	Degree C		20-NOV-22	R5894656
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
Total Dissolved Solids	54		10	mg/L		19-NOV-22	R5895096
Turbidity	4.11		0.10	NTU		19-NOV-22	R5894598
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
pH, Client Supplied	7.1		0.10	pH		20-NOV-22	R5894656
Temperature, Client Supplied	2.22		0	Degree C		20-NOV-22	R5894656
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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 &amp; 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 <sub>3</sub> )	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 <sub>3</sub> )	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 <sub>3</sub> )	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

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
<b>BOD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5897180</b>							
<b>WG3773342-3</b>	<b>DUP</b>	<b>L2740868-1</b>						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	19-NOV-22
<b>WG3773342-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			99.5		%		85-115	19-NOV-22
<b>WG3773342-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	19-NOV-22
<b>CL-L-IC-N-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5895440</b>							
<b>WG3773370-2</b>	<b>LCS</b>							
Chloride (Cl)			102.4		%		90-110	20-NOV-22
<b>WG3773370-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	20-NOV-22
<b>COD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5896502</b>							
<b>WG3773359-3</b>	<b>DUP</b>	<b>L2740868-1</b>						
Chemical Oxygen Demand		52	58		mg/L	9.9	20	23-NOV-22
<b>WG3773359-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			104.9		%		85-115	23-NOV-22
<b>WG3773359-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	23-NOV-22
<b>WG3773359-4</b>	<b>MS</b>	<b>L2740868-3</b>						
Chemical Oxygen Demand			102.1		%		75-125	23-NOV-22
<b>COLOUR-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5894612</b>							
<b>WG3773367-2</b>	<b>LCS</b>							
Color, True			103.1		%		85-115	19-NOV-22
<b>WG3773367-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	19-NOV-22
<b>F-IC-N-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5895440</b>							
<b>WG3773370-2</b>	<b>LCS</b>							
Fluoride (F)			101.9		%		90-110	20-NOV-22
<b>WG3773370-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	20-NOV-22
<b>MET-D-CCMS-WT</b>								
	<b>Water</b>							



### Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

Page 2 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
<b>MET-D-CCMS-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5897018</b>							
<b>WG3773738-4</b>	<b>DUP</b>	<b>WG3773738-3</b>						
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

Page 3 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
<b>MET-D-CCMS-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5897018</b>							
<b>WG3773738-4</b>	<b>DUP</b>	<b>WG3773738-3</b>						
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
<b>WG3773738-2</b>	<b>LCS</b>							
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

Page 4 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
<b>MET-D-CCMS-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5897018</b>							
<b>WG3773738-2 LCS</b>								
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
<b>WG3773738-1 MB</b>								
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

Page 5 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
<b>MET-D-CCMS-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5897018</b>							
<b>WG3773738-1</b>	<b>MB</b>							
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
<b>WG3773738-5</b>	<b>MS</b>	<b>WG3773738-6</b>						
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

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
<b>MET-D-CCMS-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5897018</b>							
<b>WG3773738-5 MS</b>		<b>WG3773738-6</b>						
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
<b>Batch</b>	<b>R5897131</b>							
<b>WG3773920-4 DUP</b>		<b>WG3773920-3</b>						
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

Page 7 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
<b>MET-D-CCMS-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5897131</b>							
<b>WG3773920-4</b>	<b>DUP</b>	<b>WG3773920-3</b>						
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

Page 8 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
<b>MET-D-CCMS-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5897131</b>							
<b>WG3773920-4</b>	<b>DUP</b>	<b>WG3773920-3</b>						
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
<b>WG3773920-2</b>	<b>LCS</b>							
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

Page 9 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
<b>MET-D-CCMS-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5897131</b>							
<b>WG3773920-2</b>	<b>LCS</b>							
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
<b>WG3773920-1</b>	<b>MB</b>							
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

Page 10 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
<b>MET-D-CCMS-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5897131</b>							
<b>WG3773920-1</b>	<b>MB</b>							
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
<b>WG3773920-5</b>	<b>MS</b>		<b>WG3773920-6</b>					
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

Page 11 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
<b>MET-D-CCMS-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5897131</b>							
<b>WG3773920-5 MS</b>		<b>WG3773920-6</b>						
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
<b>Batch</b>	<b>R5897182</b>							
<b>WG3773943-4 DUP</b>		<b>WG3773943-3</b>						
Aluminum (Al)-Dissolved			<0.0050	RPD-NA	mg/L	N/A	20	24-NOV-22
Antimony (Sb)-Dissolved			0.00018		mg/L	1.4	20	24-NOV-22
Arsenic (As)-Dissolved			0.00269		mg/L	3.7	20	24-NOV-22
Barium (Ba)-Dissolved			0.278		mg/L	0.9	20	24-NOV-22
Beryllium (Be)-Dissolved			<0.00010	RPD-NA	mg/L	N/A	20	24-NOV-22
Bismuth (Bi)-Dissolved			<0.000050	RPD-NA	mg/L	N/A	20	24-NOV-22
Boron (B)-Dissolved			0.024		mg/L	2.2	20	24-NOV-22
Cadmium (Cd)-Dissolved			0.0000285		mg/L	14	20	24-NOV-22
Calcium (Ca)-Dissolved			135		mg/L	0.2	20	24-NOV-22
Cesium (Cs)-Dissolved			0.000013		mg/L	18	20	24-NOV-22
Chromium (Cr)-Dissolved			0.00057	RPD-NA	mg/L	N/A	20	24-NOV-22



### Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

Page 12 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
<b>MET-D-CCMS-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5897182</b>							
<b>WG3773943-4</b>	<b>DUP</b>	<b>WG3773943-3</b>						
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
<b>WG3773943-2</b>	<b>LCS</b>							
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

Page 13 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
<b>MET-D-CCMS-WT</b>	<b>Water</b>							
<b>Batch</b>	<b>R5897182</b>							
<b>WG3773943-2</b>	<b>LCS</b>							
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

Page 14 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
<b>MET-D-CCMS-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5897182</b>							
<b>WG3773943-2</b>	<b>LCS</b>							
Zinc (Zn)-Dissolved			111.4		%		80-120	24-NOV-22
Zirconium (Zr)-Dissolved			100.2		%		80-120	24-NOV-22
<b>WG3773943-1</b>	<b>MB</b>							
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

Page 15 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
<b>MET-D-CCMS-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5897182</b>							
<b>WG3773943-1</b>	<b>MB</b>							
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
<b>WG3773943-5</b>	<b>MS</b>	<b>WG3773943-6</b>						
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

Page 16 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
------	--------	-----------	--------	-----------	-------	-----	-------	----------

**MET-D-CCMS-WT** Water

Batch	R5897182	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>WG3773943-5 MS</b>		<b>WG3773943-6</b>						
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	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>WG3773737-4 DUP</b>		<b>WG3773737-3</b>						
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

Page 17 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
<b>MET-T-CCMS-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5897016</b>							
<b>WG3773737-4 DUP</b>		<b>WG3773737-3</b>						
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
<b>WG3773737-2 LCS</b>								
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

Page 18 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
<b>MET-T-CCMS-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5897016</b>							
<b>WG3773737-2</b>	<b>LCS</b>							
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
<b>WG3773737-1</b>	<b>MB</b>							
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

Page 19 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
<b>MET-T-CCMS-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5897016</b>							
<b>WG3773737-1 MB</b>								
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

Page 20 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
<b>MET-T-CCMS-WT</b>								
	Water							
<b>Batch</b>	<b>R5897016</b>							
<b>WG3773737-1 MB</b>								
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
<b>WG3773737-5 MS</b>		<b>WG3773737-6</b>						
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

Page 22 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
<b>TURBIDITY-TB</b>								
<b>Water</b>								
Batch	R5894598							
WG3773365-1	MB							
Turbidity			<0.10		NTU		0.1	19-NOV-22
<b>ACY-MISA-TB</b>								
<b>Effluent</b>								
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
<b>ALK-MISA-TB</b>								
<b>Effluent</b>								
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
<b>CN-FREE-MISA-CFA-WT</b>								
<b>Effluent</b>								
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
<b>CN-T-MISA-CFA-WT</b>								
<b>Effluent</b>								
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
<b>CN-WAD-MISA-CFA-WT</b>								
<b>Effluent</b>								



## Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

Page 23 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
<b>CN-WAD-MISA-CFA-WT Effluent</b>								
Batch R5896943								
<b>WG3773760-3</b>	<b>DUP</b>	<b>WG3773760-5</b>						
Cyanide, Weak Acid Diss		0.0006	0.0005	RPD-NA	mg/L	N/A	20	23-NOV-22
<b>WG3773760-2</b>	<b>LCS</b>							
Cyanide, Weak Acid Diss			112.1		%		80-120	23-NOV-22
<b>WG3773760-1</b>	<b>MB</b>							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	23-NOV-22
<b>WG3773760-4</b>	<b>MS</b>	<b>WG3773760-5</b>						
Cyanide, Weak Acid Diss			117.3		%		75-125	23-NOV-22
<b>DOC-WT Effluent</b>								
Batch R5899038								
<b>WG3773872-3</b>	<b>DUP</b>	<b>WG3773872-5</b>						
Dissolved Organic Carbon		6.68	6.96		mg/L	4.2	25	28-NOV-22
<b>WG3773872-2</b>	<b>LCS</b>							
Dissolved Organic Carbon			94.8		%		70-130	28-NOV-22
<b>WG3773872-1</b>	<b>MB</b>							
Dissolved Organic Carbon			<0.50		mg/L		0.5	28-NOV-22
<b>EC-MISA-TB Effluent</b>								
Batch R5896636								
<b>WG3773364-2</b>	<b>LCS</b>							
Conductivity (EC)			96.9		%		90-110	22-NOV-22
<b>WG3773364-1</b>	<b>MB</b>							
Conductivity (EC)			0.4		uS/cm		2	22-NOV-22
<b>HG-DIS-WT Effluent</b>								
Batch R5896896								
<b>WG3773862-3</b>	<b>DUP</b>	<b>L2740858-1</b>						
Mercury (Hg)-Dissolved		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	23-NOV-22
<b>WG3773862-2</b>	<b>LCS</b>							
Mercury (Hg)-Dissolved			101.0		%		80-120	23-NOV-22
<b>WG3773862-1</b>	<b>MB</b>							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.000005	23-NOV-22
<b>WG3773862-4</b>	<b>MS</b>	<b>L2740858-2</b>						
Mercury (Hg)-Dissolved			95.2		%		70-130	23-NOV-22
<b>HG-TOT-WT Effluent</b>								
Batch R5896397								
<b>WG3773690-3</b>	<b>DUP</b>	<b>L2740858-1</b>						
Mercury (Hg)-Total		<0.000005	<0.000005	RPD-NA	mg/L	N/A	20	23-NOV-22
<b>WG3773690-2</b>	<b>LCS</b>							





**Environmental**

## Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

Page 24 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
<b>HG-TOT-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5896397</b>							
<b>WG3773690-2</b>	<b>LCS</b>							
Mercury (Hg)-Total			101.0		%		80-120	23-NOV-22
<b>WG3773690-1</b>	<b>MB</b>							
Mercury (Hg)-Total			<0.000005		mg/L		0.000005	23-NOV-22
<b>WG3773690-4</b>	<b>MS</b>	<b>L2740858-2</b>						
Mercury (Hg)-Total			100.8		%		70-130	23-NOV-22
<b>NH3-MISA-F-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5895719</b>							
<b>WG3773357-2</b>	<b>LCS</b>							
Ammonia, Total (as N)			98.1		%		85-115	21-NOV-22
<b>WG3773357-1</b>	<b>MB</b>							
Ammonia, Total (as N)			<0.002		mg/L		0.005	21-NOV-22
<b>NO2-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5895440</b>							
<b>WG3773370-2</b>	<b>LCS</b>							
Nitrite (as N)			105.3		%		90-110	20-NOV-22
<b>WG3773370-1</b>	<b>MB</b>							
Nitrite (as N)			<0.001		mg/L		0.01	20-NOV-22
<b>NO3-MISA-IC-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5895440</b>							
<b>WG3773370-2</b>	<b>LCS</b>							
Nitrate (as N)			102.2		%		90-110	20-NOV-22
<b>WG3773370-1</b>	<b>MB</b>							
Nitrate (as N)			<0.002		mg/L		0.02	20-NOV-22
<b>OGG-TOT-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5896558</b>							
<b>WG3773740-2</b>	<b>LCS</b>							
Oil and Grease, Total			96.5		%		50-150	23-NOV-22
<b>WG3773740-1</b>	<b>MB</b>							
Oil and Grease, Total			1.0		mg/L		1	23-NOV-22
<b>PH-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5896636</b>							
<b>WG3773364-2</b>	<b>LCS</b>							
pH			6.94		pH		6.9-7.1	22-NOV-22
<b>SO4-MISA-IC-TB</b>								
	<b>Effluent</b>							



### Quality Control Report

Workorder: L2740868

Report Date: 11-JAN-23

Page 25 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
<b>SO4-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5895440</b>							
<b>WG3773370-2</b>	<b>LCS</b>							
Sulfate (SO4)			104.1		%		90-110	20-NOV-22
<b>WG3773370-1</b>	<b>MB</b>							
Sulfate (SO4)			<0.05		mg/L		0.3	20-NOV-22
<b>TDS-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5895096</b>							
<b>WG3773343-2</b>	<b>LCS</b>							
Total Dissolved Solids			99.5		%		85-115	19-NOV-22
<b>WG3773343-1</b>	<b>MB</b>							
Total Dissolved Solids			2		mg/L		10	19-NOV-22
<b>TKN-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5898158</b>							
<b>WG3774060-3</b>	<b>DUP</b>	<b>WG3774060-5</b>						
Total Kjeldahl Nitrogen		1.05	0.95		mg/L	6.2	20	25-NOV-22
<b>WG3774060-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			114.3		%		75-125	25-NOV-22
<b>WG3774060-1</b>	<b>MB</b>							
Total Kjeldahl Nitrogen			<0.05		mg/L		0.18	25-NOV-22
<b>WG3774060-4</b>	<b>MS</b>	<b>WG3774060-5</b>						
Total Kjeldahl Nitrogen			110.2		%		70-130	25-NOV-22
<b>TSS-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5895057</b>							
<b>WG3773344-2</b>	<b>LCS</b>							
Total Suspended Solids			104.0		%		85-115	19-NOV-22
<b>WG3773344-1</b>	<b>MB</b>							
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  
Contact: Garnet Cornell

Page 26 of 29

## 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
<b>Physical Tests</b>							
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
<b>Leachable Anions &amp; Nutrients</b>							
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
<b>Cyanides</b>							
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

Page 28 of 29

## Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Metals</b>							
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
<b>Aggregate Organics</b>							
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

Page 29 of 29

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					
				On Ice: <input checked="" type="radio"/> yes <input type="radio"/> no		16.3°C			
				Shipped: Air/Ground		18.4°C			
Received by		LV 11/18/22 11:15		Lab Name: ALS Thunder Bay				Email Invoice to: rainyriver.accounts1@newgold.com	
				Lab Phone:				Email Report to: rainyriver.labresults@newgold.com	

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		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						Preservatives														
	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: <del>yes</del> / 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

<b>Drinking Water (DW) Samples (client use)</b>
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:

---

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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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							
<b>Anions and Nutrients</b>							
Sulfate (SO4)	4.55	<T	0.30	mg/L		14-DEC-22	R5907116
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							

\* Refer 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							
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
Cyanide, Free	0.0003	<DL	0.0020	mg/L		20-DEC-22	R5908856
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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
<b>Radiological Parameters</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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							
<b>Cyanides</b>							
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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							
<b>Organic / Inorganic Carbon</b>							
<b>Total Metals</b>							
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							
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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							
<b>Field Tests</b>							
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
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Total Metals</b>							
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							
<b>Total Metals</b>							
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
<b>Dissolved Metals</b>							
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							
<b>Dissolved Metals</b>							
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
<b>Aggregate Organics</b>							
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 &amp; 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 <sub>3</sub> )	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 <sub>3</sub> )	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 <sub>3</sub> )	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
<b>BOD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5908599</b>							
<b>WG3776096-3</b>	<b>DUP</b>	<b>L2743053-1</b>						
Biochemical Oxygen Demand		<2.0	<2.0	RPD-NA	mg/L	N/A	30	14-DEC-22
<b>WG3776096-2</b>	<b>LCS</b>							
Biochemical Oxygen Demand			105.2		%		85-115	14-DEC-22
<b>WG3776096-1</b>	<b>MB</b>							
Biochemical Oxygen Demand			<2.0		mg/L		2	14-DEC-22
<b>CL-L-IC-N-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5907116</b>							
<b>WG3776116-3</b>	<b>DUP</b>	<b>L2743056-1</b>						
Chloride (Cl)		5.69	5.47		mg/L	4.1	20	14-DEC-22
<b>WG3776116-2</b>	<b>LCS</b>							
Chloride (Cl)			100.3		%		90-110	14-DEC-22
<b>WG3776116-1</b>	<b>MB</b>							
Chloride (Cl)			<0.10		mg/L		0.1	14-DEC-22
<b>WG3776116-4</b>	<b>MS</b>	<b>L2743056-2</b>						
Chloride (Cl)			99.0		%		75-125	14-DEC-22
<b>COD-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R5908136</b>							
<b>WG3776169-3</b>	<b>DUP</b>	<b>L2742963-2</b>						
Chemical Oxygen Demand		42	41		mg/L	2.9	20	17-DEC-22
<b>WG3776169-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			107.4		%		85-115	17-DEC-22
<b>WG3776169-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	17-DEC-22
<b>WG3776169-4</b>	<b>MS</b>	<b>L2742963-3</b>						
Chemical Oxygen Demand			104.2		%		75-125	17-DEC-22
<b>Batch</b>	<b>R5909516</b>							
<b>WG3776170-3</b>	<b>DUP</b>	<b>L2743056-11</b>						
Chemical Oxygen Demand		81	76		mg/L	6.6	20	20-DEC-22
<b>WG3776170-2</b>	<b>LCS</b>							
Chemical Oxygen Demand			98.7		%		85-115	20-DEC-22
<b>WG3776170-1</b>	<b>MB</b>							
Chemical Oxygen Demand			<10		mg/L		10	20-DEC-22
<b>WG3776170-4</b>	<b>MS</b>	<b>L2743056-12</b>						
Chemical Oxygen Demand			92.8		%		75-125	20-DEC-22
<b>COLOUR-TB</b>								
	<b>Water</b>							



### Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

Page 2 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
<b>COLOUR-TB</b>		<b>Water</b>						
Batch	R5906761							
<b>WG3776114-3</b>	<b>DUP</b>	<b>L2743056-10</b>						
Color, True		101	101		CU	0.0	20	14-DEC-22
<b>WG3776114-2</b>	<b>LCS</b>							
Color, True			100.9		%		85-115	14-DEC-22
<b>WG3776114-1</b>	<b>MB</b>							
Color, True			<2.0		CU		2	14-DEC-22
<b>F-IC-N-TB</b>		<b>Water</b>						
Batch	R5907116							
<b>WG3776116-3</b>	<b>DUP</b>	<b>L2743056-1</b>						
Fluoride (F)		0.038	0.029	J	mg/L	0.009	0.04	14-DEC-22
<b>WG3776116-2</b>	<b>LCS</b>							
Fluoride (F)			101.1		%		90-110	14-DEC-22
<b>WG3776116-1</b>	<b>MB</b>							
Fluoride (F)			<0.020		mg/L		0.02	14-DEC-22
<b>WG3776116-4</b>	<b>MS</b>	<b>L2743056-2</b>						
Fluoride (F)			104.1		%		75-125	14-DEC-22
<b>PO4-DO-COL-TB</b>		<b>Water</b>						
Batch	R5907716							
<b>WG3776115-3</b>	<b>DUP</b>	<b>L2743056-1</b>						
Orthophosphate-Dissolved (as P)		0.0064	0.0065		mg/L	2.8	20	16-DEC-22
<b>WG3776115-2</b>	<b>LCS</b>							
Orthophosphate-Dissolved (as P)			96.9		%		80-120	16-DEC-22
<b>WG3776115-1</b>	<b>MB</b>							
Orthophosphate-Dissolved (as P)			<0.0010		mg/L		0.001	16-DEC-22
<b>WG3776115-4</b>	<b>MS</b>	<b>L2743056-2</b>						
Orthophosphate-Dissolved (as P)			118.4		%		70-130	16-DEC-22
<b>TKN-F-TB</b>		<b>Water</b>						
Batch	R5907876							
<b>WG3776153-3</b>	<b>DUP</b>	<b>L2742930-1</b>						
Total Kjeldahl Nitrogen		43.6	41.8		mg/L	4.4	20	15-DEC-22
<b>WG3776155-3</b>	<b>DUP</b>	<b>L2743056-9</b>						
Total Kjeldahl Nitrogen		0.936	0.892		mg/L	4.9	20	15-DEC-22
<b>WG3776153-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			104.6		%		75-125	15-DEC-22
<b>WG3776155-2</b>	<b>LCS</b>							
Total Kjeldahl Nitrogen			97.3		%		75-125	15-DEC-22
<b>WG3776153-1</b>	<b>MB</b>							



### Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

Page 3 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
<b>TKN-F-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5907876</b>							
<b>WG3776153-1 MB</b>	Total Kjeldahl Nitrogen		<0.050		mg/L		0.05	15-DEC-22
<b>WG3776155-1 MB</b>	Total Kjeldahl Nitrogen		<0.050		mg/L		0.05	15-DEC-22
<b>WG3776153-4 MS</b>	Total Kjeldahl Nitrogen	<b>L2742963-1</b>	114.3		%		70-130	15-DEC-22
<b>Batch</b>	<b>R5911285</b>							
<b>WG3776709-3 DUP</b>	Total Kjeldahl Nitrogen	<b>L2743396-1</b>	49.9	47.6	mg/L	4.6	20	24-DEC-22
<b>WG3776709-2 LCS</b>	Total Kjeldahl Nitrogen		111.1		%		75-125	24-DEC-22
<b>WG3776709-1 MB</b>	Total Kjeldahl Nitrogen		<0.050		mg/L		0.05	24-DEC-22
<b>WG3776709-4 MS</b>	Total Kjeldahl Nitrogen	<b>L2743396-1</b>	N/A	MS-B	%		-	24-DEC-22
<b>TKN-F-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5910196</b>							
<b>WG3776691-3 DUP</b>	Total Kjeldahl Nitrogen	<b>L2742716-1</b>	4.98	4.55	mg/L	9.2	20	21-DEC-22
<b>WG3776691-2 LCS</b>	Total Kjeldahl Nitrogen		102.0		%		75-125	21-DEC-22
<b>WG3776691-1 MB</b>	Total Kjeldahl Nitrogen		<0.050		mg/L		0.05	21-DEC-22
<b>WG3776691-4 MS</b>	Total Kjeldahl Nitrogen	<b>L2742716-1</b>	104.9		%		70-130	21-DEC-22
<b>TOC-WT</b>		<b>Water</b>						
<b>Batch</b>	<b>R5910216</b>							
<b>WG3776695-3 DUP</b>	Total Organic Carbon	<b>L2743056-3</b>	35.1	35.3	mg/L	0.4	20	21-DEC-22
<b>WG3776695-2 LCS</b>	Total Organic Carbon		98.7		%		80-120	21-DEC-22
<b>WG3776695-1 MB</b>	Total Organic Carbon		<0.50		mg/L		0.5	21-DEC-22
<b>WG3776695-4 MS</b>	Total Organic Carbon	<b>L2743056-3</b>	N/A	MS-B	%		-	21-DEC-22
<b>TURBIDITY-TB</b>		<b>Water</b>						



### Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

Page 4 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
<b>TURBIDITY-TB</b>		<b>Water</b>						
<b>Batch</b>	<b>R5906797</b>							
<b>WG3776140-3</b>	<b>DUP</b>	<b>L2743056-5</b>						
Turbidity		4.32	4.43		NTU	2.5	15	14-DEC-22
<b>WG3776140-2</b>	<b>LCS</b>							
Turbidity			101.0		%		85-115	14-DEC-22
<b>WG3776140-1</b>	<b>MB</b>							
Turbidity			<0.10		NTU		0.1	14-DEC-22
<b>ACY-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908837</b>							
<b>WG3776113-2</b>	<b>LCS</b>							
Acidity (as CaCO3)			100.9		%		85-115	17-DEC-22
<b>WG3776113-1</b>	<b>MB</b>							
Acidity (as CaCO3)			2.6		mg/L		3	17-DEC-22
<b>ALK-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5907083</b>							
<b>WG3776111-3</b>	<b>DUP</b>	<b>L2743056-12</b>						
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
<b>WG3776111-2</b>	<b>LCS</b>							
Alkalinity, Total (as CaCO3)			103.6		%		85-115	14-DEC-22
<b>WG3776111-1</b>	<b>MB</b>							
Alkalinity, Total (as CaCO3)			<0.2		mg/L		2	14-DEC-22
Alkalinity, Phenolphthalein			<0.2		mg/L		2	14-DEC-22
<b>CN-FREE-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908856</b>							
<b>WG3776598-3</b>	<b>DUP</b>	<b>L2743053-1</b>						
Cyanide, Free		0.0161	0.0158		mg/L	2.1	20	20-DEC-22
<b>WG3776598-2</b>	<b>LCS</b>							
Cyanide, Free			103.2		%		80-120	20-DEC-22
<b>WG3776598-1</b>	<b>MB</b>							
Cyanide, Free			0.0009		mg/L		0.002	20-DEC-22
<b>WG3776598-4</b>	<b>MS</b>	<b>L2743053-1</b>						
Cyanide, Free			82.6		%		75-125	20-DEC-22
<b>CN-T-MISA-CFA-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908856</b>							
<b>WG3776598-3</b>	<b>DUP</b>	<b>L2743053-1</b>						
Cyanide, Total		0.0268	0.0270		mg/L	1.2	20	19-DEC-22
<b>WG3776598-2</b>	<b>LCS</b>							



## Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

Page 5 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
<b>CN-T-MISA-CFA-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5908856</b>							
<b>WG3776598-2</b>	<b>LCS</b>							
Cyanide, Total			92.9		%		80-120	19-DEC-22
<b>WG3776598-1</b>	<b>MB</b>							
Cyanide, Total			<0.0002		mg/L		0.002	19-DEC-22
<b>WG3776598-4</b>	<b>MS</b>	<b>L2743053-1</b>						
Cyanide, Total			79.2		%		75-125	19-DEC-22
<b>CN-WAD-MISA-CFA-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5908856</b>							
<b>WG3776598-3</b>	<b>DUP</b>	<b>L2743053-1</b>						
Cyanide, Weak Acid Diss		0.0208	0.0221		mg/L	6.1	20	19-DEC-22
<b>WG3776598-2</b>	<b>LCS</b>							
Cyanide, Weak Acid Diss			101.4		%		80-120	19-DEC-22
<b>WG3776598-1</b>	<b>MB</b>							
Cyanide, Weak Acid Diss			<0.0001		mg/L		0.002	19-DEC-22
<b>WG3776598-4</b>	<b>MS</b>	<b>L2743053-1</b>						
Cyanide, Weak Acid Diss			104.6		%		75-125	19-DEC-22
<b>DOC-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5911499</b>							
<b>WG3776554-3</b>	<b>DUP</b>	<b>WG3776554-5</b>						
Dissolved Organic Carbon		3.62	3.54		mg/L	2.3	25	23-DEC-22
<b>WG3776554-2</b>	<b>LCS</b>							
Dissolved Organic Carbon			95.9		%		70-130	23-DEC-22
<b>WG3776554-1</b>	<b>MB</b>							
Dissolved Organic Carbon			<0.50		mg/L		0.5	23-DEC-22
<b>EC-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5907083</b>							
<b>WG3776111-3</b>	<b>DUP</b>	<b>L2743056-12</b>						
Conductivity (EC)		423	423		uS/cm	0.0	10	14-DEC-22
<b>WG3776111-2</b>	<b>LCS</b>							
Conductivity (EC)			98.0		%		90-110	14-DEC-22
<b>WG3776111-1</b>	<b>MB</b>							
Conductivity (EC)			0.2		uS/cm		2	14-DEC-22
<b>HG-DIS-WT</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5908980</b>							
<b>WG3776596-3</b>	<b>DUP</b>	<b>L2743304-17</b>						
Mercury (Hg)-Dissolved		<0.000005	0.000005	RPD-NA	mg/L	N/A	20	20-DEC-22
<b>WG3776596-2</b>	<b>LCS</b>							



### Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

Page 6 of 25

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
<b>HG-DIS-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908980</b>							
<b>WG3776596-2</b>	<b>LCS</b>							
Mercury (Hg)-Dissolved			100.0		%		80-120	20-DEC-22
<b>WG3776596-1</b>	<b>MB</b>							
Mercury (Hg)-Dissolved			<0.000005		mg/L		0.000005	20-DEC-22
<b>WG3776596-4</b>	<b>MS</b>	<b>L2743056-1</b>						
Mercury (Hg)-Dissolved			89.8		%		70-130	20-DEC-22
<b>HG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908978</b>							
<b>WG3776581-7</b>	<b>DUP</b>	<b>L2743304-17</b>						
Mercury (Hg)-Total		0.000010	0.000005		mg/L	13	20	20-DEC-22
<b>WG3776581-6</b>	<b>LCS</b>							
Mercury (Hg)-Total			101.0		%		80-120	20-DEC-22
<b>WG3776581-5</b>	<b>MB</b>							
Mercury (Hg)-Total			<0.000005		mg/L		0.000005	20-DEC-22
<b>WG3776581-8</b>	<b>MS</b>	<b>L2743056-1</b>						
Mercury (Hg)-Total			95.3		%		70-130	20-DEC-22
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908479</b>							
<b>WG3776403-7</b>	<b>DUP</b>	<b>L2743056-5</b>						
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

Page 7 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch R5908479</b>								
<b>WG3776403-7 DUP</b>		<b>L2743056-5</b>						
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
<b>WG3776403-2 LCS</b>								
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

Page 8 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908479</b>							
<b>WG3776403-2 LCS</b>								
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
<b>WG3776403-6 LCS</b>								
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

Page 9 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908479</b>							
<b>WG3776403-6</b>	<b>LCS</b>							
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

Page 10 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908479</b>							
<b>WG3776403-6</b>	<b>LCS</b>							
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
<b>WG3776403-1</b>	<b>MB</b>							
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

Page 11 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
<b>MET-D-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908479</b>							
<b>WG3776403-1 MB</b>								
	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
<b>WG3776403-5 MB</b>								
	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

Page 12 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
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5908479</b>							
<b>WG3776403-5 MB</b>								
Silicon (Si)-Dissolved			<0.005		mg/L		0.05	16-DEC-22
Silver (Ag)-Dissolved			<0.000000E		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			<0.000000E		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
<b>WG3776403-8 MS</b>		<b>L2743056-7</b>						
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

Page 13 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
<b>MET-D-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5908479</b>							
<b>WG3776403-8 MS</b>		<b>L2743056-7</b>						
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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5908436</b>							
<b>WG3776340-7 DUP</b>		<b>L2743056-5</b>						
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

Page 14 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908436</b>							
<b>WG3776340-7</b>	<b>DUP</b>	<b>L2743056-5</b>						
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
<b>WG3776340-2</b>	<b>LCS</b>							
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

Page 15 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908436</b>							
<b>WG3776340-2</b>	<b>LCS</b>							
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

Page 16 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908436</b>							
<b>WG3776340-2 LCS</b>								
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
<b>WG3776340-6 LCS</b>								
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

Page 17 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908436</b>							
<b>WG3776340-6 LCS</b>								
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
<b>WG3776340-1 MB</b>								
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

Page 18 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
<b>MET-T-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908436</b>							
<b>WG3776340-1 MB</b>								
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
<b>WG3776340-5 MB</b>								
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

Report Date: 09-JAN-23

Page 19 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5908436</b>							
<b>WG3776340-5 MB</b>								
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
<b>WG3776340-8 MS</b>		<b>L2743056-7</b>						
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

Page 20 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
<b>MET-T-MISA-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5908436</b>							
<b>WG3776340-8</b>	<b>MS</b>	<b>L2743056-7</b>						
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
<b>NH3-MISA-F-TB</b>								
	<b>Effluent</b>							
<b>Batch</b>	<b>R5908216</b>							
<b>WG3776167-3</b>	<b>DUP</b>	<b>L2743056-9</b>						
Ammonia, Total (as N)		0.062	0.060		mg/L	1.0	20	16-DEC-22
<b>WG3776165-2</b>	<b>LCS</b>		101.8		%		85-115	16-DEC-22
Ammonia, Total (as N)								
<b>WG3776167-2</b>	<b>LCS</b>							



## Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

Page 21 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
<b>NH3-MISA-F-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5908216</b>							
<b>WG3776167-2</b>	<b>LCS</b>							
Ammonia, Total (as N)			100.6		%		85-115	16-DEC-22
<b>WG3776165-1</b>	<b>MB</b>							
Ammonia, Total (as N)			0.004		mg/L		0.005	16-DEC-22
<b>WG3776167-1</b>	<b>MB</b>							
Ammonia, Total (as N)			0.004		mg/L		0.005	16-DEC-22
<b>WG3776165-4</b>	<b>MS</b>	<b>L2742963-1</b>						
Ammonia, Total (as N)			N/A	MS-B	%		-	16-DEC-22
<b>WG3776167-4</b>	<b>MS</b>	<b>L2743056-10</b>						
Ammonia, Total (as N)			104.1		%		75-125	16-DEC-22
<b>NO2-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5907116</b>							
<b>WG3776116-3</b>	<b>DUP</b>	<b>L2743056-1</b>						
Nitrite (as N)		<0.001	<0.001	RPD-NA	mg/L	N/A	20	14-DEC-22
<b>WG3776116-2</b>	<b>LCS</b>							
Nitrite (as N)			99.2		%		90-110	14-DEC-22
<b>WG3776116-1</b>	<b>MB</b>							
Nitrite (as N)			<0.001		mg/L		0.01	14-DEC-22
<b>WG3776116-4</b>	<b>MS</b>	<b>L2743056-2</b>						
Nitrite (as N)			98.1		%		75-125	14-DEC-22
<b>NO3-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5907116</b>							
<b>WG3776116-3</b>	<b>DUP</b>	<b>L2743056-1</b>						
Nitrate (as N)		0.068	0.062		mg/L	8.4	20	14-DEC-22
<b>WG3776116-2</b>	<b>LCS</b>							
Nitrate (as N)			100.2		%		90-110	14-DEC-22
<b>WG3776116-1</b>	<b>MB</b>							
Nitrate (as N)			<0.002		mg/L		0.02	14-DEC-22
<b>WG3776116-4</b>	<b>MS</b>	<b>L2743056-2</b>						
Nitrate (as N)			97.6		%		75-125	14-DEC-22
<b>OGG-TOT-WT</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5911738</b>							
<b>WG3776685-2</b>	<b>LCS</b>							
Oil and Grease, Total			90.5		%		50-150	20-DEC-22
<b>WG3776685-1</b>	<b>MB</b>							
Oil and Grease, Total			<0.2		mg/L		1	20-DEC-22
<b>PH-MISA-TB</b>		<b>Effluent</b>						



## Quality Control Report

Workorder: L2743056

Report Date: 09-JAN-23

Page 22 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
<b>PH-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5907083</b>							
<b>WG3776111-3</b>	<b>DUP</b>	<b>L2743056-12</b>						
pH		7.37	7.45	J	pH	0.08	0.2	14-DEC-22
<b>WG3776111-2</b>	<b>LCS</b>							
pH			6.93		pH		6.9-7.1	14-DEC-22
<b>SO4-MISA-IC-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5907116</b>							
<b>WG3776116-3</b>	<b>DUP</b>	<b>L2743056-1</b>						
Sulfate (SO4)		8.25	7.95		mg/L	3.6	20	14-DEC-22
<b>WG3776116-2</b>	<b>LCS</b>							
Sulfate (SO4)			101.6		%		90-110	14-DEC-22
<b>WG3776116-1</b>	<b>MB</b>							
Sulfate (SO4)			<0.05		mg/L		0.3	14-DEC-22
<b>WG3776116-4</b>	<b>MS</b>	<b>L2743056-2</b>						
Sulfate (SO4)			100.0		%		75-125	14-DEC-22
<b>TDS-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5907878</b>							
<b>WG3776203-3</b>	<b>DUP</b>	<b>L2743053-1</b>						
Total Dissolved Solids		1450	1460		mg/L	0.8	20	15-DEC-22
<b>WG3776203-2</b>	<b>LCS</b>							
Total Dissolved Solids			100.7		%		85-115	15-DEC-22
<b>WG3776203-1</b>	<b>MB</b>							
Total Dissolved Solids			6		mg/L		10	15-DEC-22
<b>TSS-MISA-TB</b>		<b>Effluent</b>						
<b>Batch</b>	<b>R5907877</b>							
<b>WG3776204-3</b>	<b>DUP</b>	<b>L2743053-1</b>						
Total Suspended Solids		1.5	1.5	RPD-NA	mg/L	N/A	20	15-DEC-22
<b>WG3776204-2</b>	<b>LCS</b>							
Total Suspended Solids			114.2		%		85-115	15-DEC-22
<b>WG3776204-1</b>	<b>MB</b>							
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

Page 23 of 25

## 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

Page 24 of 25

## Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
<b>Physical Tests</b>							
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
<b>Anions and Nutrients</b>							
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
<b>Cyanides</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Organic / Inorganic Carbon</b>							
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
<b>Lab Section 4</b>			
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**  
 Date Sampled: **Dec 11, 2022**  
 Sample Matrix: **WATER**  
 Description: **12/11/2022 SW22A\_SW\_20221210 L2743056-7**

Client PO #: **L2743056**  
 Date Received: **Dec 16, 2022**

Analyte	Units	Result	DL
<b>Lab Section 4</b>			
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**

<b>Name</b>	<b>Units</b>	<b>Method</b>
Radium-226	Bq/L	Rad-105



Project Name: Rainy River  
 Location: Chapple  
 Project Number:  
 Project Manager:  
 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	Containers		Number of Containers	Comments
						SW Kit	Ra-226 Bottle		
						Filtered	N	N	
						Preservatives			
						NG-SW-P-TB		RA226-MMER-BE	
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		<del>12</del> 1

Signature	Data/Time	Shipping Details		ATTN	Special Instructions:
		Method of Shipment: Courier			
Shipped by	12/12/2022 4:48:00 PM	On Ice: yes / no <i>Ice Pack</i>			Email Invoice to: rainyriver.accounts1@newgold.com
Received by <i>LV 12/13/22 9:20</i>		Shipped: Air/Ground			
		Lab Name: ALS Thunder Bay			Email Report to: rainyriver.labresults@newgold.com
		Lab Phone:			

*12/13/22 9:20*



CHAIN OF CUSTODY RECORD - ALS-449077002

<b>Project Name:</b> Rainy River <b>Location:</b> Chapple <b>Project Number:</b> <b>Project Manager:</b> <b>PO Number:</b>						<b>Containers</b>  <b>Filtered</b>		SW Kit	Ra-226 Bottle											
<b>Project:</b> <b>Turn Around Time (days):</b> 10 Business Days <b>Shipping Company:</b> <b>Shipping Date:</b> 12/12/2022 4:48:00 PM <b>COC Number:</b> ALS-449077002						<b>Preservatives</b>														
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	

<b>Signature</b>  <b>Data/Time</b>		<b>Shipping Details</b>		<b>ATTN</b>		<b>Special Instructions:</b>	
<b>Shipped by</b>  <b>Received by</b> LV 12/13/22 9:20		<b>Method of Shipment:</b> Courier <b>On Ice:</b> yes / no Ice Pack <b>Shipped:</b> Air/Ground <b>Lab Name:</b> ALS Thunder Bay <b>Lab Phone:</b>				<b>Email Invoice to:</b> rainyriver.accounts1@newgold.com <b>Email Report to:</b> rainyriver.labresults@newgold.com	



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															12	
SW21A_SW_20221210	0	8.97	-0.14	12/11/2022 14:55	SW	X															11X	
TB_SW_20221210				12/12/2022 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	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
----------------------	----